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FILE COVERS 1907 - 12 Aug 2005 VOL 143 ISS 8

FILE LAST UPDATED: 11 Aug 2005 (20050811/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s aspartam?

L1 3766 ASPARTAM?

=> s sulfonamid?

L2 32454 SULFONAMID?

=> s l1 and L2

L3 6 L1 AND L2

=> d ibib abs kwic

Text Searches (CAPLUS)
USPATAL
aspartam?
sulfonamid?
sulfamid?

aspart? (S) phenylalanine?
or
(S) (sulfamid? or
sulfonamid?)

L3 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:396714 CAPLUS
DOCUMENT NUMBER: 138:390970
TITLE: Oral dosage form containing a sulfonamide prodrug (parecoxib)
INVENTOR(S): Karia, Aziz; Nema, Sandeep; Ewing, Gary D.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 43 pp.
CODEN: PIXX02
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003041705	A1	20030522	WO 2002-US36253	20021112
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TH, TN, TR, TT, TZ, UA, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2466504	AA	20030522	CA 2002-2466504	20021112
US 2003100595	A1	20030529	US 2002-292682	20021112
EP 1446118	A1	20040818	EP 2002-789593	20021112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, DE, DK, EE, ES, JP 2002014081	A	20040928	BR 2002-14081	20021112
BR 2005509002	T2	20050407	JP 2003-543592	20021112
ZA 2004003328	A	20050413	ZA 2004-3328	20040503

PRIORITY APPLN. INFO.:
US 2001-350596P P 20011113
WO 2002-US36253 W 20021112

OTHER SOURCE(S): MARPAT 138:390970
AB A pharmaceutical composition that is substantially free of water comprises at least 1 orally deliverable dosage unit comprising a sulfonamide prodrug and, where the prodrug is readily degradable ex vivo, and has the means to inhibit such degradation prior to oral administration. The prodrug is parecoxib or a water-soluble salt, and the composition has the means to inhibit conversion of the parecoxib to valdecoxib. A method of treating or preventing a COX-2-mediated disorder in a subject comprises (a) dissolving at least 1 dosage unit of such a composition in a pharmaceutically acceptable aqueous vehicle to form a solution and (b) orally administering the solution to the subject before substantial precipitation of an insol. matter occurs in the solution. Blood plasma concentration of valdecoxib in human subjects was determined in a pharmacokinetic study in 11 healthy adult male subjects. Each subject received each of three treatments, in randomized sequence, treatments being separated by 15 days. The treatments were: single i.v. 20-mg dose of parecoxib, as parecoxib sodium, reconstituted in 1 mL water from a lyophilized powder and administered in a bolus; a single oral 20 mg dose of valdecoxib in the form of an immediate-release valdecoxib tablet,

L3 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Citrus bergamia
Citrus limon
Citrus paradisi
Citrus reticulata
Citrus sinensis
Coffea
Coriandrum sativum
Cranberry
Cuminum cyminum
Drug bioavailability
Eucalyptus
Ficus carica
Flavoring materials
Foeniculum vulgare
Fragaria
Freeze drying
Glycyrrhiza
Human
Humulus
Malt
Mentha piperita
Mentha spicata
Molasses
Odor and Odorous substances
Pimpinella anisum
Prunus
Prunus amygdalus
Prunus armeniaca
Prunus persica
Psidium
Pyrus communis
Raspberry
Ribes nigrum
Rosa
Sweetening agents
Syzygium aromaticum
Theobroma cacao
Vanilla
Vitis vinifera
Wintergreen
Zingiber officinale
IT (oral dosage form contg. sulfonamide prodrug (parecoxib))
Carbohydrates, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
IT (oral dosage form containing sulfonamide prodrug (parecoxib))
IT Drug delivery systems
(oral; oral dosage form containing sulfonamide prodrug (parecoxib))
IT Drug delivery systems
(powders; oral dosage form containing sulfonamide prodrug (parecoxib))
IT Sulfonamides
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(prodrugs; oral dosage form containing sulfonamide prodrug (parecoxib))
IT Drug delivery systems
(sols., oral; oral dosage form containing sulfonamide prodrug (parecoxib))
IT Drug delivery systems
(tablets, effervescent; oral dosage form containing sulfonamide

L3 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
administered with 240 mL water; and a single 20 mg dose of parecoxib, as parecoxib sodium, reconstituted in 50 mL water from a lyophilized powder and administered orally, followed 10 by two 25 mL washes of the container. Max. blood plasma concn. of valdecoxib, when parecoxib was administered orally in accordance with the present invention, was achieved in T_{max} 1.22 h than when parecoxib was administered i.v. Furthermore, the max. valdecoxib concn. reached (C_{max} 297 ng/mL) was similar to that achieved with either i.v. parecoxib (C_{max} 312 ng/mL) or oral valdecoxib (C_{max} 284 ng/mL) administration.
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
TI Oral dosage form containing a sulfonamide prodrug (parecoxib)
AB A pharmaceutical composition that is substantially free of water comprises at least 1 orally deliverable dosage unit comprising a sulfonamide prodrug and, where the prodrug is readily degradable ex vivo, and has the means to inhibit such degradation prior to oral administration. The prodrug is parecoxib or a water-soluble salt, and the composition has the means to inhibit conversion of the parecoxib to valdecoxib. A method of treating or preventing a COX-2-mediated disorder in a subject comprises (a) dissolving at least 1 dosage unit of such a composition in a pharmaceutically acceptable aqueous vehicle to form a solution and (b) orally administering the solution to the subject before substantial precipitation of an insol. matter occurs in the solution. Blood plasma concentration of valdecoxib in human subjects was determined in a pharmacokinetic study in 11 healthy adult male subjects. Each subject received each of three treatments, in randomized sequence, treatments being separated by 15 days. The treatments were: single i.v. 20-mg dose of parecoxib, as parecoxib sodium, reconstituted in 1 mL water from a lyophilized powder and administered in a bolus; a single oral 20 mg dose of valdecoxib in the form of an immediate-release valdecoxib tablet, administered with 240 mL water; and a single 20 mg dose of parecoxib, as parecoxib sodium, reconstituted in 50 mL water from a lyophilized powder and administered orally, followed 10 by two 25 mL washes of the container. Maximum blood plasma concentration of valdecoxib, when parecoxib was administered orally in accordance with the present invention, was achieved in T_{max} 1.22 h than when parecoxib was administered i.v. Furthermore, the maximum valdecoxib concentration reached (C_{max} 297 ng/mL) was similar to that achieved with either i.v. parecoxib (C_{max} 312 ng/mL) or oral valdecoxib (C_{max} 284 ng/mL) administration.
ST oral dosage sulfonamide prodrug parecoxib
IT Taste
(modulators; oral dosage form containing sulfonamide prodrug (parecoxib))
IT Spices
(nutmeg; oral dosage form containing sulfonamide prodrug (parecoxib))
IT Anethum graveolens
Blackberry
Blueberry
Camellia sinensis
Caramel (color)
Cinnamon (spice)
Citrus aurantifolia

L3 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
prodrug (parecoxib)
IT Drug delivery systems
(tablets; oral dosage form containing sulfonamide prodrug (parecoxib))
IT Citrus reticulata
(tangerine; oral dosage form containing sulfonamide prodrug (parecoxib))
IT 329900-75-6, Synthetase, prostaglandin endoperoxide, 2
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibitors; oral dosage form containing sulfonamide prodrug (parecoxib))
IT 198470-84-7, Parecoxib 198470-85-8, Parecoxib sodium
RL: PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(oral dosage form containing sulfonamide prodrug (parecoxib))
IT 50-99-7, Dextrose, biological studies 57-48-7, Fructose, biological studies 57-50-1, Sucrose, biological studies 69-65-8, Mannitol 81-07-2, Saccharin 100-88-9, Cyclamic acid 22839-47-0, Aspartame 33665-90-6, Acesulfame 165450-17-9, Neotame 169590-41-4, Dacoxib 169590-42-5, Calcocoxib 181695-72-7, Valdecoxib
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(oral dosage form containing sulfonamide prodrug (parecoxib))

=> d ibib abs kwic gi

L3 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:396714 CAPLUS
DOCUMENT NUMBER: 138:390970
TITLE: Oral dosage form containing a sulfonamide prodrug (parecoxib)
INVENTOR(S): Xaris, Aziz; Nema, Sandeep; Ewing, Gary D.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 43 pp.
CODEN: PIXX02
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003041705	A1	20030522	WO 2002-US36253	20021112
W: AZ, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2466504	AA	20030522	CA 2002-2466504	20021112
US 2003100595	A1	20030529	US 2002-292682	20021112
EP 1446118	A1	20040818	EP 2002-789593	20021112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, IL, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002014081	A	20040928	BR 2002-14081	20021112
JP 2005509002	T2	20050407	JP 2003-543592	20021112
ZA 2004003328	A	20050413	ZA 2004-3328	20040503
PRIORITY APPLN. INFO.:			US 2001-350596P	P 20011113
			WO 2002-US36253	W 20021112

OTHER SOURCE(S): HARPAT 138:390970
AB A pharmaceutical composition that is substantially free of water comprises at least 1 orally deliverable dosage unit comprising a sulfonamide prodrug and, where the prodrug is readily degradable ex vivo, and has the means to inhibit such degradation prior to oral administration. The prodrug is parecoxib or a water-soluble salt, and the composition has the means to inhibit conversion of the parecoxib to valdecoxib. A method of treating or preventing a COX-2-mediated disorder in a subject comprises (a) dissolving at least 1 dosage unit of such a composition in a pharmaceutically acceptable aqueous vehicle to form a solution and (b) orally administering the solution to the subject before substantial precipitation of an insol. matter occurs in the solution. Blood plasma concentration of valdecoxib in human subjects was determined in a pharmacokinetic study in 11 healthy adult male subjects. Each subject received each of three treatments, in randomized sequence, treatments being separated by 15 days. The treatments were: single i.v. 20-mg dose of parecoxib, as parecoxib sodium, reconstituted in 1 mL water from a lyophilized powder and administered in a bolus; a single oral 20 mg dose of valdecoxib in the form of an immediate-release valdecoxib tablet.

L3 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
administered with 240 mL water; and a single 20 mg dose of parecoxib, as parecoxib sodium, reconstituted in 50 mL water from a lyophilized powder and administered orally, followed 10 by two 25 mL washes of the container. Max. blood plasma concn. of valdecoxib, when parecoxib was administered orally in accordance with the present invention, was achieved in T_{max} 1.22 h than when parecoxib was administered i.v. Furthermore, the max. valdecoxib concn. reached (C_{max} 297 ng/mL) was similar to that achieved with either i.v. parecoxib (C_{max} 312 ng/mL) or oral valdecoxib (C_{max} 284 ng/mL) administration.
TI Oral dosage form containing a sulfonamide prodrug (parecoxib)
AB A pharmaceutical composition that is substantially free of water comprises at least 1 orally deliverable dosage unit comprising a sulfonamide prodrug and, where the prodrug is readily degradable ex vivo, and has the means to inhibit such degradation prior to oral administration.
ST oral dosage sulfonamide prodrug parecoxib
IT Taste (modulators; oral dosage form containing sulfonamide prodrug (parecoxib))
IT Spices (nutmeg; oral dosage form containing sulfonamide prodrug (parecoxib))
IT Anethum graveolens Blackberry Blueberry Camellia sinensis Caramel (color) Cinnamon (spice) Citrus aurantifolia Citrus bergamia Citrus limon Citrus paradisi Citrus reticulata Citrus sinensis Coffea Coriandrum sativum Cranberry Cumminum cyminum Drug bioavailability Eucalyptus Ficus carica Flavoring materials Foeniculum vulgare Fragaria Freeze drying Glycyrrhiza Human Humulus Malt Mentha piperita Mentha spicata Molasses Odor and Odorous substances Pimpinella anisum Prunus Prunus amygdalus Prunus armeniaca Prunus persica Psidium Pyrus communis

L3 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Raspberry
Ribes nigrum
Rosa
Sweetening agents
Syzygium aromaticum
Theobroma cacao
Vanilla
Vitis vinifera
Wintergreen
Zingiber officinale
oral dosage form contg. sulfonamide prodrug (parecoxib)
IT Carbohydrates, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(oral dosage form containing sulfonamide prodrug (parecoxib))
IT Drug delivery systems
(oral; oral dosage form containing sulfonamide prodrug (parecoxib))
IT Drug delivery systems
(powders; oral dosage form containing sulfonamide prodrug (parecoxib))
IT Sulfonamides
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(prodrugs; oral dosage form containing sulfonamide prodrug (parecoxib))
IT Drug delivery systems
(solns., oral; oral dosage form containing sulfonamide prodrug (parecoxib))
IT Drug delivery systems
(tablets, effervescent; oral dosage form containing sulfonamide prodrug (parecoxib))
IT Drug delivery systems
(tablets; oral dosage form containing sulfonamide prodrug (parecoxib))
IT Citrus reticulata
(tangerine; oral dosage form containing sulfonamide prodrug (parecoxib))
IT 329900-75-6, Synthetase, prostaglandin endoperoxide, 2
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibitors; oral dosage form containing sulfonamide prodrug (parecoxib))
IT 198470-84-7, Parecoxib 198470-85-8, Parecoxib sodium
RL: PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(oral dosage form containing sulfonamide prodrug (parecoxib))
IT 50-99-7, Dextrose, biological studies 57-48-7, Fructose, biological studies 57-50-1, Sucrose, biological studies 69-65-8, Mannitol 81-07-2, Saccharin 100-88-9, Cyclic acid 22839-47-0, Aspartame 33665-90-6, Acesulfame 165450-17-9, Neotame 169590-41-4, Deracoxib 169590-42-5, Celecoxib 181695-72-7, Valdecoxib
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(oral dosage form containing sulfonamide prodrug (parecoxib))
REFERENCE COUNT: 6
THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d,ibib abs kwic 2-6

L3 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2005 ACS ON STN

ACCESSION NUMBER: 2002:465794 CAPLUS
DOCUMENT NUMBER: 137:37665
TITLE: Self-emulsifying lipid matrix (SELM) for oral pharmaceuticals
INVENTOR(S): Kuentz, Martin; Roethlisberger, Dieter
PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.
SOURCE: PCT Int. Appl., 15 pp.
CODEN: PIXX2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002047663	A1	20020620	WO 2001-EP14437	20011208
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM, HW: GB, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG	AA	20020620	CA 2001-2431397	20011208
CA 2431397	AA	20020620	CA 2001-2431397	20011208
AU 2002016085	A5	20020624	AU 2002-16085	20011208
EP 1349541	A1	20031008	EP 2001-270324	20011208
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR	JP	20040617	JP 2002-549237	20011208
JP 20040517837	T2	20040617	JP 2002-549237	20011208
CN 1514720	A	20040721	CN 2001-820608	20011208
US 2002114837	A1	20020822	US 2001-15925	20011210
US 6719996	B2	20040413		
ZA 2003004263	A	20040326	ZA 2003-4263	20030530
PRIORITY APPL. INFO.:			EP 2000-127414	A 20001214
			WO 2001-EP14437	W 20011208

AB A pharmaceutical composition for oral administration of an active compound showing a bioavailability of 20% or less comprises (by weight) 0.01-15% of an active compound molecularly dissolved in the composition, 30-80% of an edible lipid matrix, and 1-20% of an edible emulsifier, the ratio between the dose weight of the active compound and its solubility in the composition being equal to or greater than 0.6 mL. The high percentage of fat (30-80%) enables to considerably increase the amount of the drug molecularly dispersed in the dosage form, thus allowing to significantly reduce the number of unit doses which must be taken daily by patients. For example, 8 g Cremophor RH 40 were dispersed in 70.08 g of cocoa butter, previously warmed to 70-80°. The temperature of the resulting mixture was then reduced to about 50-60° and 1.4 g of 2-[3,5-bis(trifluoromethyl)phenyl]-N-methyl-N-(6-morpholin-4-yl-4-o-tolylpyridin-3-yl) isobutyramide (I) were dissolved together with 0.02 g vanillin. The temperature of the resulting mixture was further reduced to 40° and 0.5 g aspartame were added. Finally, 20 g of milk powder were added at about 35° (upper limit of the melting interval of cocoa butter). The resulting homogeneous mixture was then dosed in molds whereby SELM tablets of 5 g each (corresponding to a volume of about 5 mL) were obtained showing a ratio between the dose weight

L3 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
of the active compd. and its soly. in the compn. of at least 4.67 mL. The use of SELM compn. enabled an increase of the bioavailability of I up to 22% in beagle dogs.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
AB A pharmaceutical composition for oral administration of an active compound showing a bioavailability of 20% or less comprises (by weight) 0.01-15% of an active compound molecularly dissolved in the composition, 30-80% of an edible lipid matrix, and 1-20% of an edible emulsifier, the ratio between the dose weight of the active compound and its solubility in the composition being equal to or greater than 0.6 mL. The high percentage of fat (30-80%) enables to considerably increase the amount of the drug molecularly dispersed in the dosage form, thus allowing to significantly reduce the number of unit doses which must be taken daily by patients. For example, 8 g Cremophor RH 40 were dispersed in 70.08 g of cocoa butter, previously warmed to 70-80°. The temperature of the resulting mixture was then reduced to about 50-60° and 1.4 g of 2-[3,5-bis(trifluoromethyl)phenyl]-N-methyl-N-(6-morpholin-4-yl-4-o-tolylpyridin-3-yl) isobutyramide (I) were dissolved together with 0.02 g vanillin. The temperature of the resulting mixture was further reduced to 40° and 0.5 g aspartame were added. Finally, 20 g of milk powder were added at about 35° (upper limit of the melting interval of cocoa butter). The resulting homogeneous mixture was then dosed in molds whereby SELM tablets of 5 g each (corresponding to a volume of about 5 mL) were obtained showing a ratio between the dose weight of the active compound and its solubility in the composition of at least 4.67 mL. The use of SELM composition enabled an increase of the bioavailability of I up to 22% in beagle dogs.
B2 Sulfonamides
RL: PKT (Pharmacokinetics); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
IT 121-33-5, Vanillin 22839-47-0, Aspartame
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
IT (self-emulsifying lipid matrix for oral drug delivery systems)

L3 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS ON STN

ACCESSION NUMBER: 2002:429542 CAPLUS
DOCUMENT NUMBER: 137:11003
TITLE: Chondroprotective/restorative compositions containing hyaluronic acid
INVENTOR(S): Pierce, Scott W.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 14 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002068718	A1	20020606	US 2001-967977	20011002
US 6924273	B2	20050802		

PRIORITY APPL. INFO.:

AB An oral composition based on hyaluronic acid or its salts and optionally a therapeutic drug is provided for treating or preventing osteoarthritis, joint effusion, joint inflammation and pain, synovitis, lameness, post-operative arthroscopic surgery, deterioration of proper joint function including joint mobility, the reduction or inhibition of metabolic activity of chondrocytes, the activity of enzymes that degrade cartilage, and the reduction or inhibition of the production of hyaluronic acid in a mammal.

Addnl., compns. containing hyaluronic acid, chondroitin sulfate and glucosamine sulfate in a paste formulation are also described which can be administered on their own or can be used as a feed additive for cats and dogs. For example, a composition contained (by weight) glucosamine sulfate 36%, chondroitin sulfate 4%, sodium hyaluronate 0.144%, manganese sulfate 0.144%, ibuprofen 200 mg, powdered sugar 20%, glycerin 0.7%, xanthan gum 0.2%, sodium benzoate 0.7%, citric acid 0.2%, molasses 23.5%, and water 14.4%.

IT Amino acids, biological studies
Castor oil
Cocoa butter
Cod liver oil
Hydrocarbon oils
Kaolin, biological studies
Lanolin
Lecithins
Mineral elements, biological studies
Sulfonamides
Vitamins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(chondroprotective/restorative compns. containing hyaluronic acid for treatment of joint disorders)
IT 50-02-2 50-03-3, Hydrocortisone acetate 50-06-6, Phenobarbital, biological studies 50-13-5, Meperidine hydrochloride 50-21-5, Lactic acid, biological studies 50-23-7, Hydrocortisone 50-24-8, Prednisolone 50-33-9, Phenylbutazone, biological studies 50-78-2, Acetylsalicylic acid 50-78-20, Acetylsalicylic acid, buffered 50-81-7, L-Ascorbic acid, biological studies 51-42-3, Epinephrine bitartrate 51-99-9, Norethindrone acetate 52-28-8, Codeine phosphate 53-03-2, Prednisone 53-86-1, Indomethacin 54-11-5, Nicotine 54-31-9, Furosemide 55-63-0, Nitroglycerin 56-75-7, Chloramphenicol 56-81-5, Glycerin, biological studies 57-11-4, Stearic acid, biological studies 57-27-2, Morphine, biological studies 57-33-0, Pentobarbital sodium 57-41-0, Phenytol

L3 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
57-55-6, Propylene glycol, biological studies 57-63-6, Ethinyl estradiol 58-08-2, Caffeine, biological studies 58-55-9, Theophylline, biological studies 58-85-5, Biotin 58-93-5, Hydrochlorothiazide 59-30-3, Folic acid, biological studies 59-43-8, Thiamine, biological studies 59-67-6, Niacin, biological studies 61-33-6, biological studies 61-68-7, Mefenamic acid 61-76-7, Phenylephrine hydrochloride 62-49-7, Choline 64-17-5, Ethanol, biological studies 64-19-7, Acetic acid, biological studies 64-75-5, Tetracycline hydrochloride 65-23-6, Pyridoxine 65-85-0, Benzoic acid, biological studies 67-63-0, Isopropanol, biological studies 67-68-5, Dimethyl sulfoxide, biological studies 67-71-0, Methylsulfonylmethane 68-04-2, Sodium citrate 68-19-9, Cynocobalamin 68-22-4, Moredithrone 69-53-4, Ampicillin 69-72-7, Salicylic acid, biological studies 71-58-9, Medroxyprogesterone acetate 73-78-9, Lidocaine hydrochloride 76-22-2, Camphor 76-49-3, Bonyl acetate 76-57-3, Codeine 77-09-8, Phenolphthalein 77-41-8, Methsuximide 77-92-9, Citric acid, biological studies 78-11-5, Pentaerythritol tetranitrate 79-83-4 83-88-5, Riboflavin, biological studies 85-79-0, Dibucaine 87-67-2, Choline bitartrate, biological studies 87-89-8, myo-Inositol 88-04-0, Chloroxylenol 89-78-1, Menthol 90-64-2 93-14-1, Guafenesin 93-60-7, Methyl nicotinate 94-09-7, Benzocaine 94-36-0, Benzoyl peroxide, biological studies 97-59-6, Allantoin 98-92-0, Niacinamide 100-97-0, Methenamine, biological studies 103-90-2, Acetaminophen 104-46-1, Anethole 108-46-3, Resorcinol, biological studies 108-95-2, Phenol, biological studies 112-38-9, Undecylenic acid 113-92-8, Chlorpheniramine maleate 114-07-8, Erythromycin 115-67-3, Paramethadione 117-10-2, Danthron 119-36-8, Methyl salicylate 119-61-9D, Benzophenone, derivs. 123-03-5, Cetylpyridinium chloride 124-94-7, Triamcinolone 125-69-9, Dextromethorphan hydrobromide 126-07-8, Griseofulvin 128-49-4, Docusate calcium 131-53-3, Dioxibenzene 131-57-7, Oxybenzone 132-20-7, Pheniramine maleate 134-31-6, 8-Hydroxyquinoline sulfate 136-77-6, Hexylresorcinol 137-58-6, Lidocaine 139-12-8, Aluminum acetate 140-65-8, Pramoxine 141-01-5, Ferrous fumarate 143-71-5, Hydrocodone bitartrate 144-55-8, Sodium bicarbonate, biological studies 147-24-0, Diphenhydramine hydrochloride 150-13-0, p-Aminobenzoic acid 152-11-4, Verapamil hydrochloride 152-43-2, Quinestrol 154-41-6, Phenylpropanolamine hydrochloride 156-51-4, Phenzazine sulfate 299-29-6, Ferrous gluconate 299-42-3, Ephedrine 302-79-4, Tretinoin 303-25-3, Cyclizine hydrochloride 318-98-9, Propranolol hydrochloride 321-64-2, Tacrine 345-78-8, Pseudoephedrine hydrochloride 395-28-8 439-14-5, Diazepam 443-48-1, Metronidazole 469-62-5, Propoxyphene 470-82-6, Eucalyptol 471-34-1, Calcium carbonate, biological studies 532-03-6, Methocarbamol 532-32-1, Sodium benzoate 546-93-0, Magnesium carbonate 550-70-9, Tripropylene glycol 557-04-0, Magnesium stearate 557-08-4, Zinc undecylenate 562-10-7 577-11-7, Docusate sodium 603-50-9, Bisacodyl 614-39-1, Proclonamide hydrochloride 637-07-0, Clonidine 637-58-1, Pramoxine hydrochloride 644-62-2, Meclofenamic acid 723-46-6, Sulfamethoxazole 980-71-2, Brompheniramine maleate 1218-35-5, Xylometazoline hydrochloride 1305-62-0, Calcium hydroxide, biological studies 1309-42-8, Magnesium hydroxide 1321-11-5, Aminobenzoic acid 1327-41-9, Aluminum chlorohydrate 1400-61-9, Nystatin 1403-66-3, Gentamicin 1404-90-6, Vancomycin 1405-10-3, Neomycin sulfate 1405-20-5, Polymyxin B sulfate 1405-41-0, Gentamycin sulfate 1405-87-4, Bacitracin 1406-16-2, Vitamin D 1406-18-4, Vitamin E 1639-60-7, Propoxyphene hydrochloride 1684-40-8, Tacrine hydrochloride 2391-03-9, Dextromethorphan maleate 2398-96-1, Tolnate 2955-38-6, Prazepam 3380-34-5, Triclosan 4205-90-7, Clonidine 4205-91-8, Clonidine hydrochloride 4499-40-5, Oxytriphylamine, biological studies 5466-77-3, Octyl methoxycinnamate 5534-09-8, Beclomethasone dipropionate 5574-97-5, Metaproterenol sulfate

L3 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

6385-02-0, Meclofenamate sodium 6740-88-1, Ketamine 7054-25-3, Quinidine gluconate 7280-37-7, Estropipate 7439-89-6, Iron, biological studies 7439-96-5, Manganese, biological studies 7440-50-8, Copper, biological studies 7440-66-6, Zinc, biological studies 7440-70-2, Calcium, biological studies 7447-40-7, Potassium chloride, biological studies 7460-12-0, Pseudoephedrine sulfate 7491-09-0, Docosate potassium 7553-56-2, Iodine, biological studies 7631-86-9, Silicon dioxide, biological studies 7647-14-5, Sodium chloride (NaCl), biological studies 7681-49-4, Sodium fluoride, biological studies 7704-34-9, Sulfur, biological studies 7720-78-7, Ferrous sulfate 7723-14-0, Phosphorus, biological studies 7733-02-0, Zinc sulfate 7757-79-1, Potassium nitrate, biological studies 7785-87-7, Manganese sulfate 8011-96-9, Calamine 8025-63-6, 8050-81-5, Simethicone 8065-29-0, Liotrix 9004-10-8, Insulin, biological studies 9004-32-4, Sodium carboxymethyl cellulose 9004-67-5, Methyl cellulose 9005-25-8, Starch, biological studies 9006-65-9, Dimethicone 9036-19-5, Octoxynol 10163-15-2, Sodium monofluorophosphate 11041-12-6, Cholestyramine resin 11096-26-7, Erythropoietin 11099-07-3, Glyceryl stearate 11103-57-4, Vitamin A 11111-12-9D, Cephalosporin, derivs. 11138-66-2, Xanthan gum 12001-76-2, Vitamin B 12001-79-5, Vitamin K 14362-31-3, Chlorcyclizine hydrochloride 14455-29-9, Aluminum carbonate 14663-23-1, Dantrium 14698-29-4, Oxolinic acid 14838-15-4, Phenylpropanolamine 14987-04-3, Magnesium trisilicate 15307-79-6, Diclofenac sodium 15686-71-2, Cephalixin 15687-27-1, Ibuprofen 17140-78-2, Propoxyphene napsylate 18472-51-0, Chlorhexidine gluconate 18559-94-9, Albuterol 18917-89-0, Magnesium salicylate 20830-75-5, Digoxin 21245-02-3, Padimate O 21645-51-2, Aluminum hydroxide, biological studies 21829-25-4, Nifedipine 22204-53-1, Naproxen 22832-87-7, Miconazole nitrate 22839-47-0, Aspartame 24390-14-5, Doxycycline hyclate 25441-16-1, 25812-30-0, Gemfibrozil 26027-38-3, Nonoxonyl-9 26159-34-2, Naproxen sodium 26171-23-3, Tolmetin 26781-78-0, Amoxicillin 26921-17-5, Timolol maleate 28911-01-5, Triazolam 28981-97-7, Alprozolan 29094-61-9, Glipizide 29122-68-7, Atenolol 29984-33-6, Vidarabine phosphate 34552-84-6, Isoxicam

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (chondroprotective/restorative compns. contg. hyaluronic acid for treatment of joint disorders)

L3 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

(suspensions, oral; pyrimethamine and sulfonamide combination for treatment of equine protozoal myeloencephalitis)

IT 57-68-1, Sulfamethazine 58-14-0, Pyrimethamine 63-74-10, Sulfonamide, derivs. 80-32-0 80-35-3, Sulfamethoxypyridazine 116-44-9, Sulfapyrazine 122-11-2, Sulfadimethoxine 127-79-7, Sulfamerazine 515-64-0, Sulfisomidine 526-08-9, Sulfaphenazole 547-32-0, Sulfadiazine sodium

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pyrimethamine and sulfonamide combination for treatment of equine protozoal myeloencephalitis)

L3 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:66094 CAPLUS

DOCUMENT NUMBER: 128:145349

TITLE: Treatment of equine protozoal myeloencephalitis

INVENTOR(S): Russell, Merl Charn; Fenger, Clara K.

PATENT ASSIGNEE(S): Mortar & Pestle Veterinary Pharmacy, Inc., USA

SOURCE: PCT Int. Appl. 22 pp.

CODEN: PIXX02

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9802164	A1	19980122	WO 1997-US12605	19970717
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CN, GA, GM, ML, MR, NE, SN, TD, TG				
US 5747476	A	19980505	US 1996-683507	19960717
AU 9742291	A1	19980209	AU 1997-42291	19970717
US 6255308	B1	20010703	US 1998-69956	19980430
US 6448252	B1	20020910	US 2000-685943	20001010

PRIORITY APPLN. INFO.: US 1996-683507 A 19960717
WO 1997-US12605 W 19970717
US 1998-69956 A1 19980430

AB The present invention relates to compns. and methods for treating equines, such as horses, afflicted with equine protozoal myeloencephalitis. The therapeutic compns. comprise a combination of pyrimethamine and a sulfonamide, preferably, sulfadiazine, in the absence of known therapeutic ants. of trimethoprim. An oral suspension contained sulfadiazine 166.67, sulfadiazine sodium 166.67, pyrimethamine 16.67, Na benzoate 2.22, xanthan gum 1.11, aspartame 11.11, saccharin 2.78 g, Yerba santa (Eriodictyon californium) 55.56, Caramel flavoring 5.56, Polysorbate 80 6.67, and purified water to 1000 mL.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB The present invention relates to compns. and methods for treating equines, such as horses, afflicted with equine protozoal myeloencephalitis. The therapeutic compns. comprise a combination of pyrimethamine and a sulfonamide, preferably, sulfadiazine, in the absence of known therapeutic ants. of trimethoprim. An oral suspension contained sulfadiazine 166.67, sulfadiazine sodium 166.67, pyrimethamine 16.67, Na benzoate 2.22, xanthan gum 1.11, aspartame 11.11, saccharin 2.78 g, Yerba santa (Eriodictyon californium) 55.56, Caramel flavoring 5.56, Polysorbate 80 6.67, and purified water to 1000 mL.

ST sulfonamide pyrimethamine suspension equine protozoal myeloencephalitis: sulfadiazine pyrimethamine suspension equine protozoal myeloencephalitis

IT Encephalomyelitis
Horse (Equus caballus)
Sarcocystis neurona
(pyrimethamine and sulfonamide combination for treatment of equine protozoal myeloencephalitis)

IT Drug delivery systems
Drug delivery systems

L3 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:348294 CAPLUS

DOCUMENT NUMBER: 127:66135

TITLE: Derivatized oxopiperazine rings from amino acids

AUTHOR(S): Bhatt, Ulhas; Mohamed, Nazim; Just. George; Roberts, Edward

CORPORATE SOURCE: Dep. Chem., McGill Univ., Montreal, QC, H3A 2K6, Can.

SOURCE: Tetrahedron Letters (1997), 38(21), 3679-3682

CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 127:66135

AB Two routes for the synthesis of derivatized oxopiperazines, which may act as constrained peptide mimics, are reported. The syntheses employ reductive amination and sulfonamide approaches for generating N-allylic amino acid ester derivs. and utilizing them for assembling the ring systems. An aspartame analog was prepared using this methodol.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Two routes for the synthesis of derivatized oxopiperazines, which may act as constrained peptide mimics, are reported. The syntheses employ reductive amination and sulfonamide approaches for generating N-allylic amino acid ester derivs. and utilizing them for assembling the ring systems. An aspartame analog was prepared using this methodol.

L3 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:795330 CAPLUS
DOCUMENT NUMBER: 123:179538
TITLE: Effervescent pharmaceuticals containing antibiotic,
acid and base.
INVENTOR(S): Frank, Basil; Gouws, Andre Marius
PATENT ASSIGNEE(S): S. Afr.
SOURCE: S. African, 15 pp.
CODEN: SFXKAB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 9107789	A	19930330	ZA 1991-7789	19910930
			ZA 1990-9401	A 19901123

PRIORITY APPLN. INFO.:

AB An effervescent pharmaceutical for oral administration contains amoxycillin trihydrate, an alkali and an acid. When this preparation is dissolved in water, a solution having pH <7 (preferably 3.0-6.5) is obtained.

Thus, tablets contained amoxycillin, citric acid, NaHCO₃ and other additives.

IT Sulfonamides

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(effervescent pharmaceuticals containing antibiotic and acid and base)

IT 77-92-9, Citric acid, biological studies 114-07-8, Erythromycin
144-55-9, Sodium bicarbonate, biological studies 151-21-3, SLS,
biological studies 557-04-0, Magnesium stearate 738-70-5, Trimethoprim
8064-90-2, Cotrimoxazole 9003-39-8, Povidone 22839-47-0,
Aspartame 25322-68-3, Macrogol 4000 26787-78-0, Amoxycillin
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(effervescent pharmaceuticals containing antibiotic and acid and base)

=> fil uspatall

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

26.05

26.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-5.11

-5.11

FILE 'USPATFULL' ENTERED AT 11:40:39 ON 12 AUG 2005

CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 11:40:39 ON 12 AUG 2005

CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

=> s aspartam?

L4 8609 ASPARTAM?

=> s sulfonamid?

L5 38327 SULFONAMID?

=> s l1 and L2

L6 786 L1 AND L2

=> s L4(s)L5

L7 7 L4(S) L5

=> d 1-7

L7 ANSWER 1 OF 7 USPATFULL on STN
 AN 2005:112292 USPATFULL
 TI Substituted sulfonamide-indoles
 IN Hu, Baihua, Audubon, PA, UNITED STATES
 PA WYETH, Madison, NJ, UNITED STATES (U.S. corporation)
 PI US 2005096377 A1 20050505
 AI US 2004-947839 A1 20040923 (10)
 PRAI US 2003-505803P 20030925 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 2068
 INCL INCLM: 514/419.000
 INCLS: 548/465.000; 548/492.000
 NCL NCLM: 514/419.000
 NCLS: 548/465.000; 548/492.000
 IC [7]
 ICH: C07D043-02
 ICS: A61K031-405
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 7 USPATFULL on STN
 AN 2004:77108 USPATFULL
 TI Electroprocessing in drug delivery and cell encapsulation
 IN Bowlin, Gary L., Mechanicsville, VA, UNITED STATES
 Wnek, Gary E., Midlothian, VA, UNITED STATES
 Simpson, David G., Mechanicsville, VA, UNITED STATES
 PI US 2004058887 A1 20040325
 AI US 2003-668085 A1 20030922 (10)
 RLI Continuation of Ser. No. US 2001-982515, filed on 18 Oct 2001, PENDING
 Continuation-in-part of Ser. No. US 2001-946158, filed on 4 Sep 2001,
 PENDING Continuation-in-part of Ser. No. US 2000-654517, filed on 1 Sep
 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-714255, filed
 on 17 Nov 2000, ABANDONED Continuation-in-part of Ser. No. US
 2000-512081, filed on 24 Feb 2000, ABANDONED Continuation-in-part of
 Ser. No. US 1999-386273, filed on 31 Aug 1999, GRANTED, Pat. No. US
 6592623 Continuation-in-part of Ser. No. US 2000-512081, filed on 24 Feb
 2000, ABANDONED Continuation-in-part of Ser. No. US 1999-386273, filed
 on 31 Aug 1999, GRANTED, Pat. No. US 6592623 Continuation-in-part of
 Ser. No. US 1999-386273, filed on 31 Aug 1999, GRANTED, Pat. No. US
 6592623
 PRAI US 2000-241008P 20001018 (60)
 US 2001-270118P 20010222 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 3073
 INCL INCLM: 514/044.000
 INCLS: 514/008.000; 514/012.000; 514/054.000
 NCL NCLM: 514/044.000
 NCLS: 514/008.000; 514/012.000; 514/054.000
 IC [7]
 ICH: A61K038-16
 ICS: A61K049-00; A61K031-737; A61K031-739
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 7 USPATFULL on STN
 AN 2004:24388 USPATFULL
 TI Electroprocessing of materials useful in drug delivery and cell
 encapsulation
 IN Wnek, Gary E., Midlothian, VA, UNITED STATES
 Simpson, David G., Mechanicsville, VA, UNITED STATES
 Bowlin, Gary L., Mechanicsville, VA, UNITED STATES
 Yao, Li, Manchester, CT, UNITED STATES
 Kenawy, El-Rafaie, El-Saroe, EGYPT
 Layman, John M., Chester, VA, UNITED STATES
 Sanders, Elliott H., Richmond, VA, UNITED STATES
 Fenn, John, Richmond, VA, UNITED STATES
 PI US 2004018226 A1 20040129
 AI US 2003-409682 A1 20030407 (10)
 RLI Continuation-in-part of Ser. No. US 2001-982515, filed on 18 Oct 2001,
 PENDING Continuation-in-part of Ser. No. US 2001-991373, filed on 16 Nov
 2001, PENDING Continuation-in-part of Ser. No. US 2000-714255, filed on
 17 Nov 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-512081,
 filed on 24 Feb 2000, ABANDONED Continuation-in-part of Ser. No. US
 1999-386273, filed on 31 Aug 1999, GRANTED, Pat. No. US 6592623
 Continuation-in-part of Ser. No. US 2001-946158, filed on 4 Sep 2001,
 PENDING
 PRAI WO 2001-US27409 20010904
 US 2000-241008P 20001018 (60)
 US 2001-270118P 20010222 (60)
 US 1999-121628P 19990225 (60)
 US 2002-370572P 20020405 (60)
 US 2002-400506P 20020802 (60)
 US 2002-402218P 20020808 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 4506
 INCL INCLM: 424/443.000
 NCL NCLM: 424/443.000
 IC [7]
 ICH: A61K009-70
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 4 OF 7 USPATFULL on STN
 AN 2003:282479 USPATFULL
 TI Silane copolymer compositions containing active agents
 IN Terry, Richard N., Conyers, GA, UNITED STATES
 Walsh, Kevin, Atlanta, GA, UNITED STATES
 PI US 2003198821 A1 20031023
 AI US 2003-449977 A1 20030530 (10)
 RLI Continuation of Ser. No. US 2000-568770, filed on 10 May 2000, GRANTED,
 Pat. No. US 6596401 Continuation-in-part of Ser. No. US 1998-189240,
 filed on 10 Nov 1998, GRANTED, Pat. No. US 6329488
 DT Utility
 FS APPLICATION
 LN.CNT 1308
 INCL INCLM: 428/447.000
 NCL NCLM: 428/447.000
 IC [7]
 ICH: B32B009-04
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 7 USPATFULL on STN
 AN 2003:197010 USPATFULL
 TI Silane copolymer compositions containing active agents
 IN Terry, Richard N., Conyers, GA, United States
 Walsh, Kevin, Atlanta, GA, United States
 PA C. R. Bard Inc., Murray Hill, NJ, United States (U.S. corporation)
 PI US 6596401 B1 20030722
 AI US 2000-568770 20000510 (9)
 RLI Continuation-in-part of Ser. No. US 1998-189240, filed on 10 Nov 1998,
 now patented, Pat. No. US 6329488
 DT Utility
 FS GRANTED
 LN.CNT 1332
 INCL INCLM: 428/447.000
 INCLS: 428/448.000; 524/017.000; 524/195.000; 524/434.000; 524/450.000;
 524/588.000; 524/704.000; 524/714.000; 524/780.000; 524/789.000;
 524/791.000; 524/858.000; 524/869.000; 424/280.100; 424/600.000;
 424/617.000; 424/684.000; 604/264.000; 427/002.280
 NCL NCLM: 428/447.000
 NCLS: 424/280.100; 424/600.000; 424/617.000; 424/684.000; 427/002.280;
 428/448.000; 524/017.000; 524/195.000; 524/434.000; 524/450.000;
 524/588.000; 524/704.000; 524/714.000; 524/780.000; 524/789.000;
 524/791.000; 524/858.000; 524/869.000; 604/264.000
 IC [7]
 ICM: B32B009-04
 ICS: A61K045-08; A01N059-00
 EXP 524/17; 524/195; 524/434; 524/450; 524/588; 524/704; 524/714; 524/780;
 524/789; 524/791; 524/858; 524/869; 424/280.1; 424/600; 424/617;
 424/684; 427/2.28; 428/447; 428/448; 604/264
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 6 OF 7 USPATFULL on STN
 AN 2003:146848 USPATFULL
 TI Oral dosage form of a sulfonamide prodrug
 IN Karim, Aziz, Skokie, IL, UNITED STATES
 Nema, Sandeep, Grayslake, IL, UNITED STATES
 Ewing, Gary D., Kalamazoo, MI, UNITED STATES
 PI US 2003100595 A1 20030529
 AI US 2002-292682 A1 20021112 (10)
 PRAI US 2001-350596P 20011113 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 1270
 INCL INCLM: 514/406.000
 INCLS: 514/471.000
 NCL NCLM: 514/406.000
 NCLS: 514/471.000
 IC [7]
 ICM: A61K031-415
 ICS: A61K031-365
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 7 OF 7 USPATFULL on STN
 AN 2002:157133 USPATFULL
 TI Electroprocessing in drug delivery and cell encapsulation
 IN Bowlin, Gary L., Mechanicsville, VA, UNITED STATES
 Wnek, Gary E., Midlothian, VA, UNITED STATES
 Simpson, David G., Mechanicsville, VA, UNITED STATES
 PI US 2002081732 A1 20020627
 AI US 2001-982515 A1 20011018 (9)
 PRAI WO 2001-US27409 20010904
 US 2000-241008P 20001018 (60)
 US 2001-270118P 20010222 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 3074
 INCL INCLM: 435/446.000
 INCLS: 435/325.000; 536/123.000; 536/023.100; 530/350.000; 530/395.000;
 530/359.000
 NCL NCLM: 435/446.000
 NCLS: 435/325.000; 530/350.000; 530/359.000; 530/395.000; 536/023.100;
 536/123.000
 IC [7]
 ICM: C07H021-04
 ICS: C12N015-01; C07K014-775; C07K014-435; C12N005-06
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s aspartam?

L8 8609 ASPARTAM?

=> exp aspartam?

TOO MANY FIELD CODES SPECIFIED

A term cannot be EXPANDED in more than three fields in
the same expand command.

=> exp aspartame

TOO MANY FIELD CODES SPECIFIED

A term cannot be EXPANDED in more than three fields in
the same expand command.

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

10.92

37.18

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-5.11

FILE 'REGISTRY' ENTERED AT 11:42:32 ON 12 AUG 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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provided by InfoChem.

E2	2	ASPARTAM/BI
E3	38 -->	ASPARTAME/BI
E4	1	ASPARTAMIC/BI
E5	15	ASPARTAMID/BI
E6	15	ASPARTAMIDATO/BI
E7	3162	ASPARTAMIDE/BI
E8	1	ASPARTAMIDO/BI
E9	2	ASPARTAMINE/BI
E10	36	ASPARTASE/BI
E11	4656	ASPARTATE/BI
E12	1	ASPARTATE,104/BI

=> exp aspartame 50

NUMBER OF TERMS TO DISPLAY IS OUT OF RANGE

The total number of terms displayed in a single EXPAND command must be in the range 5-25.

=> exp aspartame 25

E1	1	ASPARTALDEHYDIC/BI
E2	2	ASPARTAM/BI
E3	38 -->	ASPARTAME/BI
E4	1	ASPARTAMIC/BI
E5	15	ASPARTAMID/BI
E6	15	ASPARTAMIDATO/BI
E7	3162	ASPARTAMIDE/BI
E8	1	ASPARTAMIDO/BI
E9	2	ASPARTAMINE/BI
E10	36	ASPARTASE/BI
E11	4656	ASPARTATE/BI
E12	1	ASPARTATE,104/BI

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FILE COVERS 1907 - 12 Aug 2005 VOL 143 ISS 8
FILE LAST UPDATED: 11 Aug 2005 (20050811/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s aspart?(s)phenylalanin?(s)(sulfamid? or sulfonamid?)
    117291 ASPART?
    75970 PHENYLALANIN?
    3038 SULFAMID?
    32454 SULFONAMID?
L9      3 ASPART?(S)PHENYLALANIN?(S)(SULFAMID? OR SULFONAMID?)

=> d ibib abs kwic
```

ACCESSION NUMBER: 2001:795887 CAPLUS

DOCUMENT NUMBER: 137:252120

TITLE: Selective surface adhesion of the toxic microalga *Alexandrium minutum* induced by contact with substituted polystyrene derivatives

AUTHOR(S): La Barre, Stephane; Hamadouche, Nora; El Khadali, Zaina; Gotti, Yann; Muller, Daniel; Erard-Le Denn, Evalyne; Jozefowicz, Marcel

CORPORATE SOURCE: Laboratoire de Recherche sur les Macromolecules, CNRS UMR 7540, Universite Paris-XIII, Villetaneuse, Fr.

SOURCE: Journal of Biotechnology (2002), 93(1), 59-71

CODEN: JBTD4; ISSN: 0168-1656

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB On the basis of observations that biospecific random copolymers (RACS) could induce phenotypic changes on contact with selected eukaryotic or prokaryotic cell lines, polystyrene derivs. of known compns. and obtained by random substitutions of sodium sulfonate and of sulfamides of aspartic acid di-Me ester, phenylalanine and leucine, were placed in contact with swimming dinophytes of the PSP toxin producing species *Alexandrium minutum* and of the non-toxic species *Heterocapsa triquetra*. *A. minutum* cells exhibited higher adhesion for the random copolymer made up of polystyrene (29%), polystyrene aspartic acid di-Me ester sulfamide (47%) and polystyrene sodium sulfonate (24%), than for samples of this series with different compns. In contrast to this, *A. minutum* adhesion remained very low throughout the phenylalanine and leucine copolymer series. These results indicate that the cell-substrate adhesion phenomenon is dependent upon the final composition of the copolymer.

i.e. that it is composition-specific. Taxonomic specificity was then demonstrated by presenting the PSAspOMe copolymer series with cells of the non toxic species *H. triquetra* (Peridiniaceae) related to *A. minutum* (Gonyaulacaceae), and by observing no specific association, i.e. no signal above background levels at any composition. Specific ligand-cell adhesion is evidenced for the first time between biospecific RACS and phytoplankton, which may inspire a new generation of structures to be used in aquaculture as protective nets over shellfish clusters, or as selective filtering devices to assist in shellfish depuration from toxic microalgae.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB On the basis of observations that biospecific random copolymers (RACS) could induce phenotypic changes on contact with selected eukaryotic or prokaryotic cell lines, polystyrene derivs. of known compns. and obtained by random substitutions of sodium sulfonate and of sulfamides of aspartic acid di-Me ester, phenylalanine and leucine, were placed in contact with swimming dinophytes of the PSP toxin producing species *Alexandrium minutum* and of the non-toxic species *Heterocapsa triquetra*. *A. minutum* cells exhibited higher adhesion for the random copolymer made up of polystyrene (29%), polystyrene aspartic acid di-Me ester sulfamide (47%) and polystyrene sodium sulfonate (24%), than for samples of this series with different compns. In contrast to this, *A. minutum* adhesion remained very low throughout the phenylalanine and leucine copolymer series. These results indicate that the cell-substrate adhesion phenomenon is dependent upon the final composition of the copolymer.

i.e. that it is composition-specific. Taxonomic specificity was then demonstrated by presenting the PSAspOMe copolymer series with cells of the non toxic species *H. triquetra* (Peridiniaceae) related to *A. minutum* (Gonyaulacaceae), and by observing no specific association, i.e. no signal

above background levels at any compn. Specific ligand-cell adhesion is evidenced for the first time between biospecific RACS and phytoplankton, which may inspire a new generation of structures to be used in aquaculture as protective nets over shellfish clusters, or as selective filtering devices to assist in shellfish depuration from toxic microalgae.

=> d ibib abs kwic 2-3

L9 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
concn., and incubation time on the estns. were detd. Results were similar
to those obtained with traditional media, but growth was slower.
Incubation overnight was generally successful. Use of the synthetic media
eliminated fluctuations in the results that are usually observed in
natural media due to variations in their compns. 15 references.

=> fil uspatall

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

16.86

54.90

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-2.19

-7.30

FILE 'USPATFULL' ENTERED AT 11:45:15 ON 12 AUG 2005

CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 11:45:15 ON 12 AUG 2005

CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

=> s aspart?(s)phenylalanin?(s)(sulfamid? or sulfonamid?)

L10 69 ASPART?(S) PHENYLALANIN?(S)(SULFAMID? OR SULFONAMID?)

=> d 1-69

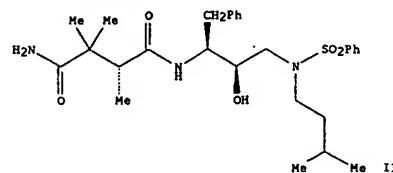
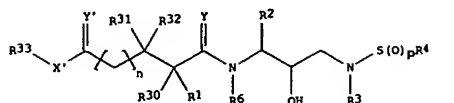
L9 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1995:964989 CAPLUS
 DOCUMENT NUMBER: 124:176937
 TITLE: N-[(succinoylamino)hydroxypropyl]sulfonamides useful as retroviral protease inhibitors
 INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel; Decrescenzo, Gary A.; Freskos, John N.
 PATENT ASSIGNEE(S): G. D. Searle and Co., USA
 SOURCE: U.S., 32 pp. Cont.-in-part of U.S. Ser. No. 935,490, abandoned
 CODEN: USXXAA
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5463104	A	19951031	US 1993-110912	19930824
AT 154800	E	19970715	AT 1993-920213	19930824
ES 2103489	T3	19970916	ES 1993-920213	19930824
US 5714605	A	19980203	US 1995-541350	19951010
US 5760076	A	19980602	US 1995-541747	19951010
US 6022994	A	20000208	US 1998-41016	19980312
US 6313345	B1	20011106	US 1999-419816	19991018
US 2002137942	A1	20020926	US 2001-884462	20010620
US 6469207	B2	20021022		
US 2003220508	A1	20031127	US 2002-237184	20020909
US 6727282	B2	20040427		
US 2005004043	A1	20050106		

PRIORITY APPL. INFO.:

OTHER SOURCE(S): MARPAT 124:176937
 GI

L9 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



AB Succinoylamino hydroxyethylamino sulfonamide compds. I or a pharmaceutically acceptable salt or ester thereof, wherein p represents 0, 1 or 2; n represents either 0 or 1; R³¹ represents N(R³⁴) or O; or R^{33X} represents cycloalkyl or aryl radicals; Y and Y' each independently represent O or S; R¹, R³⁰, R³¹ and R³² each independently represent hydrogen, OH, (CH₂)C(O)CH₃, CH₂SO₂CH₂, CO₂CH₃, CONHCH₃, CON(CH₃)₂, CH₂C(O)NHCH₃, CH₂C(O)N(CH₃)₂, CONH₂, C(CH₃)₂(SH), C(CH₃)₂(SCH₃), C(CH₃)₂(S(O)CH₃), C(CH₃)₂(S(O)CH₂CH₃), alkyl, haloalkyl, alkenyl, alkynyl, aralkyl or cycloalkyl radicals, or the side chain of the amino acid asparagine, S-Me cysteine or the corresponding sulfoxide or sulfone derivs. thereof, leucine, isoleucine, allo-isoleucine, tert-leucine, phenylalanine, ornithine, alanine, norleucine, glutamine, valine, threonine, serine, o-alkyl serine, aspartic acid, β-cyanoalanine or allothreonine; or R³⁰ and R³² together with the carbon atoms to which they are attached form a cycloalkyl radical; R² = e.g., alkyl, aryl, cycloalkyl; R³, R³³, R³⁴ = e.g., H, alkyl, haloalkyl; R⁴ = e.g., alkyl, haloalkyl, alkenyl; R⁶ = H, alkyl; are effective as retroviral protease inhibitors, and in particular as inhibitors of HIV protease. Thus, e.g., butanediamide II was prepared by coupling of benzyl (R)-2,2,3-trimethylsuccinate (prepn. given) with 2(R)-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1(S)-(phenylmethyl)propylamine (prepn. given) followed by benzyl ester hydrogenolysis and amidation, and exhibited IC₅₀ = 2 nM for inhibition of HIV protease.

AB Succinoylamino hydroxyethylamino sulfonamide compds. I or a pharmaceutically acceptable salt or ester thereof, wherein p represents 0, 1 or 2; n represents either 0 or 1; R³¹ represents N(R³⁴) or O; or R^{33X} represents cycloalkyl or aryl radicals; Y and Y' each independently represent O or S; R¹, R³⁰, R³¹ and R³² each independently represent hydrogen, OH, (CH₂)C(O)CH₃, CH₂SO₂CH₂, CO₂CH₃, CONHCH₃, CON(CH₃)₂, CH₂C(O)NHCH₃, CH₂C(O)N(CH₃)₂, CONH₂, C(CH₃)₂(SH), C(CH₃)₂(SCH₃), C(CH₃)₂(S(O)CH₃), C(CH₃)₂(S(O)CH₂CH₃), alkyl, haloalkyl, alkenyl, alkynyl, aralkyl or cycloalkyl radicals, or the side chain of the amino acid asparagine, S-Me cysteine or the corresponding sulfoxide or sulfone

L9 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 derive. thereof, leucine, isoleucine, allo-isoleucine, tert-leucine, phenylalanine, ornithine, alanine, norleucine, glutamine, valine, threonine, serine, o-alkyl serine, aspartic acid, β-cyanoalanine or allothreonine; or R³⁰ and R³² together with the carbon atoms to which they are attached form a cycloalkyl radical; R² = e.g., alkyl, aryl, cycloalkyl; R³, R³³, R³⁴ = e.g., H, alkyl, haloalkyl; R⁴ = e.g., alkyl, haloalkyl, alkenyl; R⁶ = H, alkyl; are effective as retroviral protease inhibitors, and in particular as inhibitors of HIV protease. Thus, e.g., butanediamide II was prepd. by coupling of benzyl (R)-2,2,3-trimethylsuccinate (prepn. given) with 2(R)-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1(S)-(phenylmethyl)propylamine (prepn. given) followed by benzyl ester hydrogenolysis and amidation, and exhibited IC₅₀ = 2 nM for inhibition of HIV protease.

L9 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1968:449725 CAPLUS
 DOCUMENT NUMBER: 69:49725
 TITLE: Turbidimetric or nephelometric microbiological determinations in synthetic media
 AUTHOR(S): Leclercq, S.
 CORPORATE SOURCE: Serv. Contr. Med., Assoc. Pharm. Belge, Belg.
 SOURCE: Journal de Pharmacie de Belgique (1968), 23(3-4), 155-83
 CODEN: JPBEAJ; ISSN: 0047-2166
 DOCUMENT TYPE: Journal
 LANGUAGE: French
 AB Antibacterial and growth substances (25), including antibiotics, sulfonamides, mercurials, quaternary ammonium compds., dieneol, and vitamin D, were estimated microbiol. with Escherichia coli, Staphylococcus aureus, Streptococcus faecalis, Leuconostoc mesenteroides, and Lactobacillus arabinosus on 2 synthetic media with the resp. compns.: glucose 50, NaOAc 40, NH₄Cl 6, KH₂PO₄ 1.2, K₂HPO₄ 1.2, MgSO₄ 0.4, Mn(SO₄)₂ 0.04, FeSO₄ 0.02, NaCl 0.02, pyridoxine-HCl 0.002, pyridoxamine-HCl 0.0006, pyridoxal-HCl 0.0006, nicotinic acid 0.002, riboflavin 0.001, Ca pantothenate 0.001, thiamine-HCl 0.001, p-aminobenzoic acid 0.0002, folic acid 0.00002, biotin 0.000002, asparagine 0.8, L-glutamic acid 0.6, DL-valine 0.5, L-lysine-HCl 0.5, DL-isoleucine 0.5, DL-leucine 0.5, DL-arginine-HCl 0.5, DL-threonine 0.4, DL-alanine 0.4, DL-alanine 0.4, DL-methionine 0.2, L-aspartic acid 0.2, glycine 0.2, DL-phenylalanine 0.2, L-proline 0.2, L-tyrosine 0.2, L-histidine-HCl 0.124, DL-serine 0.1, L-cystine 0.1, DL-tryptophan 0.08, adenine sulfate 0.02, guanine-HCl 0.02, uracil 0.02, and xanthine 0.02 g./l.; and KH₂PO₄ 2, (NH₄)₂SO₄ 1, KCl 0.5, MgSO₄ 0.05, Na lactate 10 g./l., H₂O to 1 l. mixed with 5 ml. of solution containing ferric ammonium citrate 1, FeCl₃.6H₂O 0.256, and CaCl₂ 1 g./l. The effects of inoculate concentration, test substance concentration, and incubation time on the estns. were determined. Results were similar to those obtained with traditional media, but growth was slower. Incubation overnight was generally successful. Use of the synthetic media eliminated fluctuations in the results that are usually observed in natural media due to variations in their compns. 15 references.
 AB Antibacterial and growth substances (25), including antibiotics, sulfonamides, mercurials, quaternary ammonium compds., dieneol, and vitamin D, were estimated microbiol. with Escherichia coli, Staphylococcus aureus, Streptococcus faecalis, Leuconostoc mesenteroides, and Lactobacillus arabinosus on 2 synthetic media with the resp. compns.: glucose 50, NaOAc 40, NH₄Cl 6, KH₂PO₄ 1.2, K₂HPO₄ 1.2, MgSO₄ 0.4, Mn(SO₄)₂ 0.04, FeSO₄ 0.02, NaCl 0.02, pyridoxine-HCl 0.002, pyridoxamine-HCl 0.0006, pyridoxal-HCl 0.0006, nicotinic acid 0.002, riboflavin 0.001, Ca pantothenate 0.001, thiamine-HCl 0.001, p-aminobenzoic acid 0.0002, folic acid 0.00002, biotin 0.000002, asparagine 0.8, L-glutamic acid 0.6, DL-valine 0.5, L-lysine-HCl 0.5, DL-isoleucine 0.5, DL-leucine 0.5, DL-arginine-HCl 0.5, DL-threonine 0.4, DL-alanine 0.4, DL-alanine 0.4, DL-methionine 0.2, L-aspartic acid 0.2, glycine 0.2, DL-phenylalanine 0.2, L-proline 0.2, L-tyrosine 0.2, L-histidine-HCl 0.124, DL-serine 0.1, L-cystine 0.1, DL-tryptophan 0.08, adenine sulfate 0.02, guanine-HCl 0.02, uracil 0.02, and xanthine 0.02 g./l.; and KH₂PO₄ 2, (NH₄)₂SO₄ 1, KCl 0.5, MgSO₄ 0.05, Na lactate 10 g./l., H₂O to 1 l. mixed with 5 ml. of solution containing ferric ammonium citrate 1, FeCl₃.6H₂O 0.256, and CaCl₂ 1 g./l. The effects of inoculate concentration, test substance

L10 ANSWER 1 OF 69 USPATFULL on STN
 AN 2005:138069 USPATFULL
 TI Stabilization and controlled delivery of ionic biopharmaceuticals
 IN Bae, You Han, Salt Lake City, UT, UNITED STATES
 Kim, Jong Ho, Salt Lake City, UT, UNITED STATES
 Taluja, Ajay, Salt Lake City, UT, UNITED STATES
 PA University of Utah Research Foundation (U.S. corporation)
 PI US 2005:118718 A1 20050602
 AI US 2004-948077 A1 20040922 (10)
 PRAI US 2003-505055P 20030922 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 1183
 INCL INCLM: 435/458.000
 INCLS: 530/350.000; 536/023.200; 525/054.100; 525/054.200
 NCL NCLM: 435/458.000
 NCLS: 525/054.100; 525/054.200; 530/350.000; 536/023.200
 IC [7]
 ICM: C12N015-88
 ICS: C07H021-04; C07K014-47
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 2 OF 69 USPATFULL on STN
 AN 2005:112292 USPATFULL
 TI Substituted sulfonamide-indoles
 IN Bu, Balhua, Audubon, PA, UNITED STATES
 PA WYETH, Madison, NJ, UNITED STATES (U.S. corporation)
 PI US 2005096377 A1 20050505
 AI US 2004-947839 A1 20040923 (10)
 PRAI US 2003-505803P 20030925 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 2068
 INCL INCLM: 514/419.000
 INCLS: 548/465.000; 548/492.000
 NCL NCLM: 514/419.000
 NCLS: 548/465.000; 548/492.000
 IC [7]
 ICM: C07D043-02
 ICS: A61K031-405
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 69 USPATFULL on STN
 AN 2005:99618 USPATFULL
 TI Method and composition for treating osteoporosis
 IN Rao, Kamury Venkata Subba, New Delhi, INDIA
 Wank, Mohan Ramachandran, Maharashtra, INDIA
 Manivel, Venkatasamy, New Delhi, INDIA
 Subrayan, Parameswaran Perunninakulath, Goa, INDIA
 Singh, Vinod Kumar, Kanpur, INDIA
 Anand, Ramasamy Vijaya, Kanpur, INDIA
 Dasa, Ehrlich, Goa, INDIA
 Mishra, Gyan Chandra, Pune, INDIA
 Chatterji, Anil, Goa, INDIA
 PA Council of Scientific & Industrial Research, New Delhi, INDIA (non-U.S. corporation)
 PI US 2005085537 A1 20050421
 AI US 2003-747671 A1 20031230 (10)
 PRAI US 2003-512183P 20031020 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 2405
 INCL INCLM: 514/517.000
 INCLS: 514/562.000; 514/566.000; 514/563.000
 NCL NCLM: 514/517.000
 NCLS: 514/562.000; 514/563.000; 514/566.000
 IC [7]
 ICM: A61K031-255
 ICS: A61K031-195
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 69 USPATFULL on STN
 AN 2005:93581 USPATFULL
 TI Preparation of prodrugs for selective drug delivery
 IN Mills, Randell L., Cranbury, NJ, UNITED STATES
 Wu, Guo-Zhang, Belle Mead, NJ, UNITED STATES
 PI US 2005080260 A1 20050414
 AI US 2004-828558 A1 20040421 (10)
 PRAI US 2003-464354P 20030422 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 6201
 INCL INCLM: 544/237.000
 INCLS: 564/338.000
 NCL NCLM: 544/237.000
 NCLS: 564/338.000
 IC [7]
 ICM: C07D237-30
 ICS: C07C211-27
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 69 USPATFULL on STN
 AN 2005:69466 USPATFULL
 TI Process for preparing peptidyl heterocyclic ketone derivatives
 IN Breslav, Michael, Maple Glen, PA, UNITED STATES
 Harris, Bruce, Lansdowne, PA, UNITED STATES
 Kenney, Birdella, North Wales, PA, UNITED STATES
 Maier, Thomas, Stockach, GERMANY, FEDERAL REPUBLIC OF
 Roessler, Armin, Tengen, GERMANY, FEDERAL REPUBLIC OF
 Villani, Frank, Perkasie, PA, UNITED STATES
 Weigl, Ulrich, Hilzingen, GERMANY, FEDERAL REPUBLIC OF
 Zhang-Flasket, Fan, Willow Grove, PA, UNITED STATES
 Zhong, Hua, Maple Glen, PA, UNITED STATES
 PI US 2005059607 A1 20050317
 AI US 2004-902755 A1 20040729 (10)
 PRAI US 2003-492646P 20030805 (60)
 US 2004-566374P 20040429 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 3604
 INCL INCLM: 514/018.000
 INCLS: 514/019.000; 514/565.000; 530/331.000; 562/560.000
 NCL NCLM: 514/018.000
 NCLS: 514/019.000; 514/565.000; 530/331.000; 562/560.000
 IC [7]
 ICM: A61K038-05
 ICS: A61K038-04; A61K031-198
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 69 USPATFULL on STN
 AN 2005:65174 USPATFULL
 TI Gene expression by positive feedback activation of a cell type-specific promoter
 IN Vile, Richard G., Rochester, MN, United States
 Gough, Michael, Rochester, MN, United States
 PA Mayo Foundation for Medical Education and Research, Rochester, MN, United States (U.S. corporation)
 PI US 6867036 B1 20050315
 AI US 2000-721391 20001122 (9)
 PRAI US 1999-167085P 19991123 (60)
 DT Utility
 FS GRANTED
 LN.CNT 1964
 INCL INCLM: 435/320.100
 INCLS: 435/455.000; 536/024.100
 NCL NCLM: 435/320.100
 NCLS: 435/455.000; 536/024.100
 IC [7]
 ICM: C12N015-00
 ICS: C12N015-63; C07H021-04
 EXF 424/93.1; 424/93.2; 435/320.1; 435/70.1; 514/44; 536/23.1-23.5; 536/24.1
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 7 OF 69 USPATFULL on STN
 AN 2005:38171 USPATFULL
 TI Process for preparing prodrugs of benzenesulfonamide-containing COX-2 inhibitors
 IN Talley, John J., Boston, MA, UNITED STATES
 Malecha, James W., Libertyville, IL, UNITED STATES
 Bertenshaw, Stephen, Cheshire, CT, UNITED STATES
 Graneto, Matthew J., Chesterfield, MO, UNITED STATES
 Carter, Jeffery S., Chesterfield, MO, UNITED STATES
 Li, Jinglin, Hopewell, NJ, UNITED STATES
 Nagarajan, Srinivasan R., Chesterfield, MO, UNITED STATES
 Brown, David L., Chesterfield, MO, UNITED STATES
 Rogler, Donald J., Jr., Kalamazoo, MI, UNITED STATES
 Penning, Thomas D., Elmhurst, IL, UNITED STATES
 Khanna, Ish K., Libertyville, IL, UNITED STATES
 Xu, Xiangdong, Gurnee, IL, UNITED STATES
 Weier, Richard M., Lake Bluff, IL, UNITED STATES
 PA Pharmacia Corporation (U.S. corporation)
 PI US 2005032851 A1 20050210
 AI US 2004-939852 A1 20040913 (10)
 RLI Division of Ser. No. US 2002-178697, filed on 24 Jun 2002, GRANTED, Pat. No. US 6815460 Division of Ser. No. US 2000-661859, filed on 14 Sep 2000, GRANTED, Pat. No. US 6436967 Continuation of Ser. No. US 1999-142993, filed on 18 Mar 1999, ABANDONED A 371 of International Ser. No. WO 1997-US5497, filed on 11 Apr 1997, PENDING Continuation-in-part of Ser. No. US 1996-631514, filed on 12 Apr 1996, ABANDONED
 DT Utility
 FS APPLICATION
 LN.CNT 2775
 INCL INCLM: 514/357.000
 INCLS: 514/365.000; 514/374.000; 514/396.000; 514/372.000; 514/378.000; 514/394.000; 514/406.000; 514/408.000; 514/471.000; 514/602.000; 564/086.000; 546/336.000; 548/200.000; 548/215.000; 548/305.400
 NCL NCLM: 514/357.000
 NCLS: 514/365.000; 514/372.000; 514/374.000; 514/378.000; 514/394.000; 514/396.000; 514/406.000; 514/408.000; 514/471.000; 514/602.000; 546/336.000; 548/200.000; 548/215.000; 548/305.400; 564/086.000
 IC [7]
 ICM: A61K031-44
 ICS: A61K031-425; A61K031-42; A61K031-415; A61K031-34; A61K031-18
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 8 OF 69 USPATFULL on STN
 AN 2005:38113 USPATFULL
 TI 2-amino-benzoxazinones for the treatment of viral infections
 IN Abood, Norman, Morton Grove, IL, UNITED STATES
 Flynn, Daniel L., Mundelein, IL, UNITED STATES
 Becker, Daniel P., Glenview, IL, UNITED STATES
 Bax, Brian M., Irvine, CA, UNITED STATES
 Li, Hui, Vernon Hills, IL, UNITED STATES
 Nosal, Roger A., Buffalo Grove, IL, UNITED STATES
 Schretzman, Lori A., Gurnee, IL, UNITED STATES
 Villamil, Clara I., Glenview, IL, UNITED STATES
 PA G.D. Searle & Co., Chicago, IL, UNITED STATES (U.S. corporation)
 PI US 2005032793 A1 20050210
 AI US 2003-728946 A1 20031208 (10)
 RLI Continuation of Ser. No. US 2002-35433, filed on 4 Jan 2002, GRANTED, Pat. No. US 6683077 Continuation of Ser. No. US 2000-502038, filed on 11 Feb 2000, GRANTED, Pat. No. US 6380189 Continuation of Ser. No. US 1998-952624, filed on 15 May 1998, ABANDONED A 371 of International Ser. No. WO 1996-US7526, filed on 23 May 1996, PENDING
 DT Utility
 FS APPLICATION
 LN.CNT 4757
 INCL INCLM: 514/230.500
 INCLS: 544/092.000
 NCL NCLM: 514/230.500
 NCLS: 544/092.000
 IC [7]
 ICM: C07D265-12
 ICS: A61K031-535
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 9 OF 69 USPATFULL on STN
 AN 2005:4455 USPATFULL
 TI Biological sample component purification and differential display
 IN Zuckermann, Ronald N., El Cerrito, CA, UNITED STATES
 Beausoleil, Eric, San Francisco, CA, UNITED STATES
 Wachowicz, Matthew, San Francisco, CA, UNITED STATES
 Kothakota, Srinivas, Santa Monica, CA, UNITED STATES
 Chiron Corporation, Emeryville, CA (U.S. corporation)
 PA US 2005003558 A1 20050106
 AI US 2004-837288 A1 20040429 (10)
 RLI Division of Ser. No. US 2000-704422, filed on 1 Nov 2000, GRANTED, Pat.
 No. US 6783929
 PRAI US 1999-163110P 19991102 (60)
 US 1999-169160P 19991206 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 1283
 INCL INCLM: 436/518.000
 NCL INCLM: 436/518.000
 IC [7]
 ICM: G01N033-543
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 10 OF 69 USPATFULL on STN
 AN 2004:319515 USPATFULL
 TI Acoustic ejection of fluids from a plurality of reservoirs
 IN Ellison, Richard N., Palo Alto, CA, UNITED STATES
 Foote, James K., Cupertino, CA, UNITED STATES
 Mutz, Mitchell W., Palo Alto, CA, UNITED STATES
 PI US 2004252163 A1 20041216
 AI US 2003-623487 A1 20030718 (10)
 RLI Continuation of Ser. No. US 2001-964212, filed on 25 Sep 2001, GRANTED,
 Pat. No. US 6666541 Continuation-in-part of Ser. No. US 2000-727392,
 filed on 29 Nov 2000, ABANDONED Continuation-in-part of Ser. No. US
 2000-669996, filed on 25 Sep 2000, ABANDONED
 DT Utility
 FS APPLICATION
 LN.CNT 2548
 INCL INCLM: 347/046.000
 NCL INCLM: 347/046.000
 IC [7]
 ICM: B41J002-135

L10 ANSWER 11 OF 69 USPATFULL on STN
 AN 2004:227324 USPATFULL
 TI Method for in situ, on-chip chemical synthesis
 IN Haushalter, Robert C., Los Gatos, CA, UNITED STATES
 PI US 2004175710 A1 20040909
 AI US 2003-477085 A1 20031106 (10)
 WO 2002-0516403 20020522
 PRAI US 2001-292788P 20010522 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 1564
 INCL INCLM: 435/006.000
 INCLS: 435/287.200; 427/002.110
 NCL INCLM: 435/006.000
 NCLS: 427/002.110; 435/287.200
 IC [7]
 ICM: C12Q001-68
 ICS: B05D003-00; C12M001-34
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 12 OF 69 USPATFULL on STN
 AN 2004:217810 USPATFULL
 TI Biological sample component purification and differential display
 IN Zuckermann, Ronald N., El Cerrito, CA, United States
 Beausoleil, Eric, San Francisco, CA, United States
 Wachowicz, Matthew, San Francisco, CA, United States
 Kothakota, Srinivas, Santa Monica, CA, United States
 Chiron Corporation, Emeryville, CA, United States (U.S. corporation)
 PA US 6783929 B1 20040831
 PI US 2000-704422 20001101 (9)
 PRAI US 1999-169160P 19991206 (60)
 US 1999-163110P 19991102 (60)
 DT Utility
 FS GRANTED
 LN.CNT 1110
 INCL INCLM: 435/004.000
 INCLS: 435/007.100; 435/007.900; 435/007.920; 435/814.000; 436/164.000;
 436/177.000; 436/518.000; 436/524.000; 436/528.000; 210/600.000;
 210/634.000; 210/644.000; 210/645.000; 210/649.000; 210/650.000;
 210/651.000; 210/656.000
 NCL INCLM: 435/004.000
 NCLS: 210/600.000; 210/634.000; 210/644.000; 210/645.000; 210/649.000;
 210/650.000; 210/651.000; 210/656.000; 435/007.100; 435/007.900;
 435/007.920; 435/814.000; 436/164.000; 436/177.000; 436/518.000;
 436/524.000; 436/528.000
 IC [7]
 ICM: G01N033-53
 ICS: G01N033-543
 EXF 435/4; 435/7.1; 435/7.9; 435/7.92; 435/814; 435/6; 436/518; 436/524;
 436/528; 436/164; 436/177; 210/600; 210/634; 210/644; 210/645;
 210/649-651; 210/656; 210/660
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 13 OF 69 USPATFULL on STN
 AN 2004:171391 USPATFULL
 TI Bioconjugates of metal complexes of nitrogen-containing macrocyclic ligands
 IN Neumann, William L., Ballwin, MO, UNITED STATES
 Riley, Dennis P., Chesterfield, MO, UNITED STATES
 Weiss, Randy H., St. Louis, MO, UNITED STATES
 Henke, Susan L., Webster Groves, MO, UNITED STATES
 Lennon, Patrick J., Webster Groves, MO, UNITED STATES
 Aston, Karl W., Pacific, MO, UNITED STATES
 PA MetaPhore Pharmaceuticals, Inc. (U.S. corporation)
 PI US 2004:131550 A1 2004:0708
 AI US 2003-737486 A1 2003:1216 (10)
 RLI Continuation of Ser. No. US 2003-405044, filed on 1 Apr 2003, PENDING
 Division of Ser. No. US 1996-698631, filed on 16 Aug 1996, ABANDONED
 PRAI US 1995-2394P 1995:0817 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 1804
 INCL INCLM: 424/009.363
 NCL NCLM: 424/009.363
 IC [7]
 ICM: A61K049-00
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 14 OF 69 USPATFULL on STN
 AN 2004:137207 USPATFULL
 TI Non-toxic corrosion-protection pigments based on rare earth elements
 IN Phelps, Andrew Wells, Kettering, OH, UNITED STATES
 Sturgill, Jeffrey Allen, Fairborn, OH, UNITED STATES
 Swartzbaugh, Joseph Thomas, Clayton, OH, UNITED STATES
 PI US 2004:104377 A1 2004:0603
 AI US 2003-625885 A1 2003:0723 (10)
 RLI Continuation-in-part of Ser. No. US 2002-37576, filed on 4 Jan 2002, PENDING
 DT Utility
 FS APPLICATION
 LN.CNT 17574
 INCL INCLM: 252/387.000
 INCLM: 252/389.200; 252/389.400; 252/389.500; 252/389.520; 252/389.530;
 252/389.540; 252/389.610
 NCL NCLM: 252/387.000
 NCLM: 252/389.200; 252/389.400; 252/389.500; 252/389.520; 252/389.530;
 252/389.540; 252/389.610
 IC [7]
 ICM: C09K003-00
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 15 OF 69 USPATFULL on STN
 AN 2004:114645 USPATFULL
 TI Electrophilic ketones for the treatment of herpesvirus infections
 IN Flynn, Daniel L., Clarkson Valley, MO, UNITED STATES
 Williams, Kenneth, Evanston, IL, UNITED STATES
 Hockerman, Susan L., Chicago, IL, UNITED STATES
 Zablocki, Jeffrey, Lafayette, CO, UNITED STATES
 PI US 2004:087491 A1 2004:0506
 AI US 2003-696940 A1 2003:1030 (10)
 RLI Division of Ser. No. US 2000-712002, filed on 14 Nov 2000, GRANTED, Pat.
 No. US 6673784 Continuation of Ser. No. US 1998-221016, filed on 23 Dec
 1998, ABANDONED Continuation of Ser. No. US 1996-620681, filed on 19 Mar
 1996, ABANDONED
 DT Utility
 FS APPLICATION
 LN.CNT 2073
 INCL INCLM: 514/002.000
 INCLM: 514/485.000; 514/535.000; 514/594.000; 514/522.000; 530/300.000;
 558/415.000; 560/024.000; 564/050.000
 NCL NCLM: 514/002.000
 NCLM: 514/485.000; 514/522.000; 514/535.000; 514/594.000; 530/300.000;
 558/415.000; 560/024.000; 564/050.000
 IC [7]
 ICM: A61K038-00
 ICS: A61K031-277; A61K031-325
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 16 OF 69 USPATFULL on STN
 AN 2004:76128 USPATFULL
 TI Methods of diagnostic image analysis using bioconjugates of metal
 complexes of nitrogen-containing macrocyclic ligands
 IN Neumann, William L., Ballwin, MO, UNITED STATES
 Riley, Dennis P., Ballwin, MO, UNITED STATES
 Weiss, Randy H., St. Louis, MO, UNITED STATES
 Henke, Susan L., Webster Groves, MO, UNITED STATES
 Lennon, Patrick J., Clayton, MO, UNITED STATES
 Aston, Karl W., Pacific, MO, UNITED STATES
 PA MetaPhore Pharmaceuticals, Inc. (U.S. corporation)
 PI US 2004:057904 A1 2004:0325
 AI US 2003-405044 A1 2003:0401 (10)
 RLI Division of Ser. No. US 1996-698631, filed on 16 Aug 1996, ABANDONED
 DT Utility
 FS APPLICATION
 LN.CNT 1803
 INCL INCLM: 424/009.363
 NCL NCLM: 424/009.363
 IC [7]
 ICM: A61K049-00
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 17 OF 69 USPATFULL on STN
 AN 2004:28446 USPATFULL
 TI Non-toxic corrosion-protection conversion coats based on rare earth elements
 IN Phelps, Andrew Wells, Kettering, OH, UNITED STATES
 Sturgill, Jeffrey Allen, Fairborn, OH, UNITED STATES
 Swartzbaugh, Joseph Thomas, Clayton, OH, UNITED STATES
 PI US 2004020568 A1 20040205
 AI US 2003-625915 A1 20030723 (10)
 RLI Continuation-in-part of Ser. No. US 2002-38274, filed on 4 Jan 2002, PENDING
 DT Utility
 FS APPLICATION
 LN.CNT 19239
 INCL INCLM: 148/273.000
 NCL NCIM: 148/273.000
 IC [7]
 ICM: C23C022-48
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 18 OF 69 USPATFULL on STN
 AN 2004:23078 USPATFULL
 TI Non-toxic corrosion-protection rinses and seals based on rare earth elements
 IN Phelps, Andrew Wells, Kettering, OH, UNITED STATES
 Sturgill, Jeffrey Allen, Fairborn, OH, UNITED STATES
 Swartzbaugh, Joseph Thomas, Clayton, OH, UNITED STATES
 PI US 2004016910 A1 20040129
 AI US 2003-625886 A1 20030723 (10)
 RLI Continuation-in-part of Ser. No. US 2002-38150, filed on 4 Jan 2002, PENDING
 DT Utility
 FS APPLICATION
 LN.CNT 18631
 INCL INCLM: 252/387.000
 NCL NCIM: 252/387.000
 IC [7]
 ICM: C09K003-00
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 19 OF 69 USPATFULL on STN
 AN 2004:15958 USPATFULL
 TI Non-toxic corrosion-protection pigments based on manganese
 IN Sturgill, Jeffrey A., Fairborn, OH, UNITED STATES
 Phelps, Andrew Wells, Kettering, OH, UNITED STATES
 PI US 2004011252 A1 20040122
 AI US 2003-341435 A1 20030113 (10)
 DT Utility
 FS APPLICATION
 LN.CNT 17481
 INCL INCLM: 106/401.000
 INCLS: 423/599.000; 427/327.000; 427/299.000; 106/479.000; 106/481.000;
 106/499.000; 106/455.000; 106/436.000; 106/450.000; 106/014.110;
 106/014.150; 106/014.120; 106/014.220; 106/014.410; 106/014.420;
 106/014.430; 106/014.440
 NCL NCIM: 106/401.000
 NCLS: 106/014.110; 106/014.120; 106/014.150; 106/014.220; 106/014.410;
 106/014.420; 106/014.430; 106/014.440; 106/436.000; 106/450.000;
 106/455.000; 106/479.000; 106/481.000; 106/499.000; 423/599.000;
 427/299.000; 427/327.000
 IC [7]
 ICM: C01G045-00
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 20 OF 69 USPATFULL on STN
 AN 2004:13401 USPATFULL
 TI Peptide analogs as irreversible interleukin-1beta protease inhibitors
 IN Dolle, Roland E., King of Prussia, PA, UNITED STATES
 Osifo, Trennegbe K., West Chester, PA, UNITED STATES
 Schmidt, Stanley J., Chester Springs, PA, UNITED STATES
 Hoyer, Denton W., Exton, PA, UNITED STATES
 Ross, Tina Morgan, Audubon, PA, UNITED STATES
 Chaturvedula, Prasad V., Exton, PA, UNITED STATES
 Prouty, Catherine P., Wayne, PA, UNITED STATES
 Awad, Mohamed M.A., Frazer, PA, UNITED STATES
 Salvino, Joseph M., Schwenksville, PA, UNITED STATES
 Rinker, James M., Schwenksville, PA, UNITED STATES
 Lodge, Eric P., Pottstown, PA, UNITED STATES
 Singh, Jasbir, Gilbertsville, PA, UNITED STATES
 Ator, Mark A., Paoli, PA, UNITED STATES
 PI US 2004009923 A1 20040115
 AI US 2003-347641 A1 20030116 (10)
 RLI Division of Ser. No. US 1999-421954, filed on 20 Oct 1999, GRANTED, Pat. No. US 6576614 Division of Ser. No. US 1996-679350, filed on 10 Jul 1996, GRANTED, Pat. No. US 5985838 Continuation of Ser. No. US 1995-371723, filed on 12 Jan 1995, ABANDONED Continuation-in-part of Ser. No. US 1993-55051, filed on 29 Apr 1993, ABANDONED
 DT Utility
 FS APPLICATION
 LN.CNT 1289
 INCL INCLM: 514/017.000
 INCLS: 514/018.000; 514/019.000; 530/330.000; 530/331.000
 NCL NCIM: 514/017.000
 NCLS: 514/018.000; 514/019.000; 530/330.000; 530/331.000
 IC [7]
 ICM: A61K038-08
 ICS: A61K038-06; A61K038-04; C07K005-06; C07K005-04
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 21 OF 69 USPATFULL on STN
 AN 2004:4461 USPATFULL
 TI Electrophilic ketones for the treatment of herpesvirus infections
 IN Flynn, Daniel L., Clarkson Valley, MO, United States
 Zablocki, Jeffery, Lafayette, CO, United States
 Williams, Kenneth, Evanston, IL, United States
 Hockerman, Susan L., Chicago, IL, United States
 PA G. D. Searle & Co., Chicago, IL, United States (U.S. corporation)
 PI US 6673784 B1 20040106
 AI US 2000-712002 20001114 (9)
 RLI Continuation of Ser. No. US 1998-221016, filed on 23 Dec 1998, now
 abandoned Continuation of Ser. No. US 1996-620681, filed on 19 Mar 1996,
 now abandoned
 DT Utility
 FS GRANTED
 LN.CNT 1874
 INCL INCLM: 514/183.000
 INCLS: 514/252.110; 514/255.010; 514/354.000; 514/357.000; 514/415.000;
 514/419.000; 514/443.000; 514/448.000; 514/469.000; 514/473.000;
 544/406.000; 546/314.000; 546/329.000; 548/470.000; 548/492.000;
 548/530.000; 549/462.000; 549/469.000; 549/467.000; 549/468.000;
 549/479.000; 549/487.000
 NCL NCIM: 514/183.000
 NCLS: 514/252.110; 514/255.010; 514/354.000; 514/357.000; 514/415.000;
 514/419.000; 514/443.000; 514/448.000; 514/469.000; 514/473.000;
 544/406.000; 546/314.000; 546/329.000; 548/470.000; 548/492.000;
 548/530.000; 549/462.000; 549/469.000; 549/467.000; 549/468.000;
 549/479.000; 549/487.000
 IC [7]
 ICM: A61K031-33
 ICS: C07D241-02; C07D213-00; C07D209-00; C07D307-02
 EXF 514/183; 514/354; 514/252.11; 514/357; 514/255.01; 514/415; 514/419;
 514/443; 514/448; 514/469; 514/473; 544/406; 546/314; 546/329; 548/470;
 548/492; 548/530; 549/462; 549/469; 549/467; 549/468; 549/479; 549/483;
 549/487
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 22 OF 69 USPATFULL on STN
 AN 2003:333199 USPATFULL
 TI Non-toxic corrosion-protection conversion coats based on cobalt
 IN Sturgill, Jeffrey Allen, Fairborn, OH, UNITED STATES
 Phelps, Andrew Wells, Kettering, OH, UNITED STATES
 Swartzbaugh, Joseph Thomas, Phillipsburg, OH, UNITED STATES
 PI US 2003234063 A1 20031225
 AI US 2002-38274 A1 20020104 (10)
 DT Utility
 FS APPLICATION
 LN.CNT 18145
 INCL INCLM: 148/273.000
 NCL NCIM: 148/273.000
 IC [7]
 ICM: C23C022-48
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 23 OF 69 USPATFULL on STN
 AN 2003:328167 USPATFULL
 TI Non-toxic corrosion-protection rinses and seals based on cobalt
 IN Sturgill, Jeffrey Allen, Fairborn, OH, UNITED STATES
 Phelps, Andrew Wells, Kettering, OH, UNITED STATES
 Swartzbaugh, Joseph Thomas, Phillipsburg, OH, UNITED STATES
 PI US 2003230363 A1 20031218
 AI US 2002-38150 A1 20020104 (10)
 DT Utility
 FS APPLICATION
 LN.CNT 17689
 INCL INCLM: 148/243.000
 INCLS: 148/246.000; 148/247.000; 148/253.000; 148/259.000; 148/260.000;
 148/261.000; 148/262.000; 148/263.000
 NCL NCIM: 148/243.000
 NCLS: 148/246.000; 148/247.000; 148/253.000; 148/259.000; 148/260.000;
 148/261.000; 148/262.000; 148/263.000
 IC [7]
 ICM: C23C022-00
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 24 OF 69 USPATFULL on STN
 AN 2003:250422 USPATFULL
 TI Bacteriocin-metal complexes in the detection of pathogens and other
 biological analytes
 IN Olstein, Alan D., Mendota Heights, MN, UNITED STATES
 Feirtag, Joellen, St. Paul, MN, UNITED STATES
 PI US 2003175207 A1 20030918
 AI US 2002-82618 A1 20020222 (10)
 DT Utility
 FS APPLICATION
 LN.CNT 1973
 INCL INCLM: 424/001.490
 INCLS: 424/009.340; 530/322.000; 435/007.320
 NCL NCIM: 424/001.490
 NCLS: 424/009.340; 435/007.320; 530/322.000
 IC [7]
 ICM: A61K051-00
 ICS: G01N033-554; G01N033-569; C07K009-00
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 25 OF 69 USPATFULL on STN
 AN 2003:213653 USPATFULL
 TI Method of immobilizing biologically active molecules for assay purposes
 in a microfluidic format
 IN Robotci, Karla, Mountain View, CA, UNITED STATES
 PI US 2003:148291 A1 20030807
 AI US 2002-72525 A1 20020205 (10)
 DT Utility
 FS APPLICATION
 LN.CNT 1370
 INCL INCLM: 435/006.000
 INCLS: 435/007.900; 436/527.000
 NCL NCLM: 435/006.000
 NCLS: 435/007.900; 436/527.000
 IC [7]
 ICM: C12Q001-68
 ICS: G01N033-53; G01N033-542; G01N033-552
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 26 OF 69 USPATFULL on STN
 AN 2003:200867 USPATFULL
 TI High density molecular arrays on porous surfaces
 IN Ellison, Richard N., Palo Alto, CA, UNITED STATES
 Mutz, Mitchell W., Palo Alto, CA, UNITED STATES
 Foote, James K., Cupertino, CA, UNITED STATES
 PI US 2003:138852 A1 20030724
 AI US 2003-338158 A1 20030107 (10)
 RLI Continuation of Ser. No. US 2001-964215, filed on 25 Sep 2001, PENDING
 Continuation-in-part of Ser. No. US 2000-727392, filed on 29 Nov 2000,
 ABANDONED Continuation-in-part of Ser. No. US 2000-669996, filed on 25
 Sep 2000, ABANDONED
 DT Utility
 FS APPLICATION
 LN.CNT 2400
 INCL INCLM: 435/007.100
 INCLS: 435/006.000; 436/518.000; 427/002.110
 NCL NCLM: 435/007.100
 NCLS: 427/002.110; 435/006.000; 436/518.000
 IC [7]
 ICM: C12Q001-68
 ICS: G01N033-53; G01N033-543; B05D003-00
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 27 OF 69 USPATFULL on STN
 AN 2003:173873 USPATFULL
 TI Electrophilic ketones for the treatment of herpesvirus infections
 IN Flynn, Daniel L., Clarkson Valley, MO, UNITED STATES
 Zablocki, Jeffery, Lafayette, CO, UNITED STATES
 Williams, Kenneth, Evanston, IL, UNITED STATES
 Hockerman, Susan L., Chicago, IL, UNITED STATES
 PA G. D. Searle & Co., Corporate Patent Department, Chicago, IL (U.S.
 corporation)
 PI US 2003:119721 A1 20030626
 US 6673788 B2 20040106
 AI US 2002-303596 A1 20021125 (10)
 RLI Division of Ser. No. US 2000-712002, filed on 14 Nov 2000, PENDING
 Continuation of Ser. No. US 1998-221016, filed on 23 Dec 1998, ABANDONED
 Continuation of Ser. No. US 1996-620681, filed on 19 Mar 1996, ABANDONED
 DT Utility
 FS APPLICATION
 LN.CNT 2118
 INCL INCLM: 514/002.000
 INCLS: 514/317.000; 514/357.000; 514/256.000; 514/252.120; 514/237.800;
 514/365.000; 514/400.000; 514/374.000; 514/415.000; 514/438.000;
 514/471.000; 514/616.000; 530/324.000; 544/159.000; 544/330.000;
 544/402.000; 546/229.000; 546/329.000; 548/204.000; 548/236.000;
 548/335.500; 548/496.000; 564/152.000
 NCL NCLM: 514/183.000
 NCLM: 514/002.000
 NCLS: 514/476.000; 514/535.000; 514/538.000; 514/646.000; 514/678.000;
 514/688.000; 514/237.800; 514/252.120; 514/256.000; 514/317.000;
 514/357.000; 514/365.000; 514/374.000; 514/400.000; 514/415.000;
 514/438.000; 514/471.000; 514/616.000; 530/324.000; 544/159.000;
 544/330.000; 544/402.000; 546/229.000; 546/329.000; 548/204.000;
 548/236.000; 548/335.500; 548/496.000; 564/152.000
 IC [7]
 ICM: A61K038-10
 ICS: A61K031-445; A61K031-495; A61K031-537; A61K031-426; A61K031-421;
 A61K031-381; A61K031-165
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 28 OF 69 USPATFULL on STN
 AN 2003:155650 USPATFULL
 TI Peptide analogs as irreversible interleukin-1 β protease inhibitors
 IN Dolle, Roland E., King of Prussia, PA, United States
 Osifo, Irennagbe K., W. Morriton, PA, United States
 Schmidt, Stanley J., Chester Springs, PA, United States
 Hoyer, Denton W., Exton, PA, United States
 Ross, Tina Morgan, Audubon, PA, United States
 Chaturvedula, Prasad V., Cheshire, CT, United States
 Prouty, Catherine P., Doylestown, PA, United States
 Awad, Mohamed M. A., Westerly, RI, United States
 Salvino, Joseph M., Schwenksville, PA, United States
 Rinker, James M., Hamden, CT, United States
 Lodge, Eric P., Glendale, AZ, United States
 Singh, Jasbir, Gilbertsville, PA, United States
 Ator, Mark A., Paoli, PA, United States
 PA Vertex Pharmaceuticals Incorporated, Cambridge, MA, United States (U.S.
 corporation)
 PI US 6576614 B1 20030610
 AI US 1999-421954 19991020 (9)
 RLI Division of Ser. No. US 1996-679350, filed on 10 Jul 1996, now patented,
 Pat. No. US 5985838 Continuation of Ser. No. US 1995-371723, filed on 12
 Jan 1995, now abandoned Continuation-in-part of Ser. No. US 1993-55051,
 filed on 29 Apr 1993, now abandoned
 DT Utility
 FS GRANTED
 LN.CNT 1316
 INCL INCLM: 514/019.000
 INCLS: 514/017.000; 514/018.000; 530/330.000; 530/331.000; 562/571.000
 NCL NCLM: 514/019.000
 NCLS: 514/017.000; 514/018.000; 530/330.000; 530/331.000; 562/571.000
 IC [7]
 ICM: C07K005-06
 EXP 530/330; 530/331; 514/18; 514/19; 514/17; 562/571
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 29 OF 69 USPATFULL on STN
 AN 2003:100176 USPATFULL
 TI Process for preparing prodrugs of benzenesulfonamide-containing cox-2 inhibitors
 IN Talley, John J., Boston, MA, UNITED STATES
 Malecha, James W., Libertyville, IL, UNITED STATES
 Bertenshaw, Stephen, Cheshire, CT, UNITED STATES
 Graneto, Matthew J., Chesterfield, MO, UNITED STATES
 Carter, Jeffery S., Chesterfield, MO, UNITED STATES
 Li, Jinglin, Hopewell, NJ, UNITED STATES
 Nagarajan, Srinivasan, Chesterfield, MO, UNITED STATES
 Brown, David L., Chesterfield, MO, UNITED STATES
 Rogier, Donald J., JR., Kalamazoo, MI, UNITED STATES
 Penning, Thomas D., Elmhurst, IL, UNITED STATES
 Khanna, Ish K., Libertyville, IL, UNITED STATES
 Xu, Xiangdong, Gurnee, IL, UNITED STATES
 Weier, Richard M., Lake Bluff, IL, UNITED STATES
 PA Pharmacia Corporation (U.S. corporation)
 PI US 2003069287 A1 20030410
 US 6815460 B2 20041109
 AI US 2002-178697 A1 20020624 (10)
 RLI Division of Ser. No. US 2000-661859, filed on 14 Sep 2000, GRANTED, Pat. No. US 6436967 Continuation of Ser. No. US 1999-142993, filed on 18 Mar 1999, ABANDONED A 371 of International Ser. No. WO 1997-US497, filed on 11 Apr 1997, PENDING A 371 of International Ser. No. US 1996-631514, filed on 12 Apr 1996, ABANDONED
 DT Utility
 FS APPLICATION
 LN.CNT 3285
 INCL INCLM: 514/357.000
 INCLS: 514/422.000; 514/408.000; 514/602.000; 546/330.000; 548/577.000; 548/517.000; 564/084.000; 564/086.000
 NCL NCIM: 514/378.000
 NCL NCIM: 514/357.000
 NCLS: 548/247.000; 514/408.000; 514/422.000; 514/602.000; 546/330.000; 548/517.000; 548/577.000; 564/084.000; 564/086.000
 IC [7]
 ICM: A61K031-44
 ICS: A61K031-4025; A61K031-40; A61K031-18
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 30 OF 69 USPATFULL on STN
 AN 2003:85917 USPATFULL
 TI Focused acoustic energy in the preparation of peptide arrays
 IN Mutz, Mitchell W., Palo Alto, CA, UNITED STATES
 Elison, Richard N., Palo Alto, CA, UNITED STATES
 PI US 2003059522 A1 20030327
 AI US 2002-271940 A1 20021015 (10)
 RLI Continuation of Ser. No. US 2001-963173, filed on 25 Sep 2001, PENDING Continuation-in-part of Ser. No. US 2000-669997, filed on 25 Sep 2000, ABANDONED
 DT Utility
 FS APPLICATION
 LN.CNT 1750
 INCL INCLM: 427/002.110
 INCLS: 435/007.900; 435/287.200
 NCL NCIM: 427/002.110
 NCLS: 435/007.900; 435/287.200
 IC [7]
 ICM: B05D003-00
 ICS: G01N033-53; G01N033-54Z; C12M001-34
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 31 OF 69 USPATFULL on STN
 AN 2003:77027 USPATFULL
 TI Acoustic ejection of fluids from a plurality of reservoirs
 IN Elison, Richard N., Palo Alto, CA, UNITED STATES
 Foots, James K., Cupertino, CA, UNITED STATES
 Mutz, Mitchell W., Palo Alto, CA, UNITED STATES
 PI US 2003052943 A1 20030320
 US 6802593 B2 20041012
 AI US 2002-269413 A1 20021011 (10)
 RLI Continuation of Ser. No. US 2001-964212, filed on 25 Sep 2001, PENDING Continuation-in-part of Ser. No. US 2000-727392, filed on 29 Nov 2000, ABANDONED Continuation-in-part of Ser. No. US 2000-669996, filed on 25 Sep 2000, ABANDONED
 DT Utility
 FS APPLICATION
 LN.CNT 2569
 INCL INCLM: 347/046.000
 NCL NCIM: 347/046.000
 NCL NCIM: 347/046.000
 IC [7]
 ICM: B41J002-135

L10 ANSWER 32 OF 69 USPATFULL on STN
 AN 2003:53802 USPATFULL
 TI Manganese or iron complexes of nitrogen-containing macrocyclic ligands effective as catalysts for dismutating superoxide
 IN Neumann, William L., Kirkwood, MO, United States
 Riley, Dennis P., Ballwin, MO, United States
 Weiss, Randy H., St. Louis, MO, United States
 Henke, Susan L., Webster Groves, MO, United States
 Lennon, Patrick J., Clayton, MO, United States
 Aston, Karl W., Pacific, MO, United States
 PA Pharmacia Corporation, St. Louis, MO, United States (U.S. corporation)
 PI US 6525041 B1 20030225
 AI US 1996-596887 19960314 (8)
 RLI Continuation-in-part of Ser. No. US 1995-468854, filed on 6 Jun 1995, now abandoned
 DT Utility
 FS GRANTED
 LN.CNT 1406
 INCL INCLM: 514/184.000
 INCLS: 514/185.000; 540/465.000
 NCL NCIM: 514/184.000
 NCLS: 514/185.000; 540/465.000
 IC [7]
 ICM: A61K031-555
 ICS: C07D259-00
 EXF 514/184; 514/185; 540/465
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 33 OF 69 USPATFULL on STN
 AN 2003:11125 USPATFULL
 TI Peptidyl heterocyclic ketones useful as cryptase inhibitors
 IN Costanzo, Michael J., Ivyland, PA, UNITED STATES
 Maryanof, Bruce E., Forest Grove, PA, UNITED STATES
 Yabut, Stephen C., North Wales, PA, UNITED STATES
 PI US 2003008829 A1 20030109
 US 2002-205355 A1 20020725 (10)
 RLI Division of Ser. No. US 2000-482802, filed on 13 Jan 2000, GRANTED, Pat.
 No. US 6469036
 PRAI US 1999-117602P 19990127 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 2066
 INCL INCLM: 514/019.000
 INCLS: 548/339.100; 564/152.000
 NCL NCLM: 514/019.000
 NCLS: 548/339.100; 564/152.000
 IC [7]
 ICM: A61K038-05
 ICS: C07K005-04
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 34 OF 69 USPATFULL on STN
 AN 2002:335702 USPATFULL
 TI High-throughput biomolecular crystallization and biomolecular crystal screening
 IN Mutz, Mitchell W., Palo Alto, CA, UNITED STATES
 Ellison, Richard N., Palo Alto, CA, UNITED STATES
 Stearns, Richard G., Felton, CA, UNITED STATES
 PI US 2002191048 A1 20021219
 US 6808934 B2 20041026
 AI US 2002-55245 A1 20020122 (10)
 RLI Continuation-in-part of Ser. No. US 2001-765947, filed on 19 Jan 2001,
 PENDING Continuation-in-part of Ser. No. US 2000-727392, filed on 29 Nov
 2000, PENDING Continuation-in-part of Ser. No. US 2000-669996, filed on
 25 Sep 2000, PENDING
 DT Utility
 FS APPLICATION
 LN.CNT 3490
 INCL INCLM: 347/046.000
 NCL NCLM: 436/180.000
 NCL NCLM: 347/046.000
 NCLS: 436/073.000; 436/086.000; 436/166.000; 436/174.000; 436/183.000
 IC [7]
 ICM: B41J002-135
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 35 OF 69 USPATFULL on STN
 AN 2002:305941 USPATFULL
 TI Method and system using acoustic ejection for preparing and analyzing a cellular sample surface
 IN Ellison, Richard N., Palo Alto, CA, UNITED STATES
 Mutz, Mitchell W., Palo Alto, CA, UNITED STATES
 Caprioli, Richard Michael, Brentwood, TN, UNITED STATES
 PI US 2002171037 A1 20021121
 US 6809315 B2 20041026
 AI US 2002-87372 A1 20020301 (10)
 RLI Continuation-in-part of Ser. No. US 2002-66546, filed on 30 Jan 2002,
 PENDING Continuation-in-part of Ser. No. US 2001-784705, filed on 14 Feb
 2001, PENDING
 DT Utility
 FS APPLICATION
 LN.CNT 1416
 INCL INCLM: 250/288.000
 NCL NCLM: 250/288.000
 NCL NCLM: 250/288.000
 NCLS: 073/864.000; 073/864.810; 422/063.000; 422/100.000; 435/030.000;
 436/180.000
 IC [7]
 ICM: H01J049-04
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 36 OF 69 USPATFULL on STN
 AN 2002:243567 USPATFULL
 TI Method for identifying compounds to treat medical pathologies associated with molecular crystallization
 IN Shell, John W., Hillsborough, CA, UNITED STATES
 PI US 2002132758 A1 20020919
 AI US 2002-52712 A1 20020117 (10)
 PRAI US 2001-262987P 20010118 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 1620
 INCL INCLM: 514/002.000
 INCLS: 435/007.100
 NCL NCLM: 514/002.000
 NCLS: 435/007.100
 IC [7]
 ICM: G01N033-53
 ICS: A61K038-17
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 37 OF 69 USPATFULL on STN
 AN 2002:233260 USPATFULL
 TI Acoustic sample introduction for analysis and/or processing
 IN Ellison, Richard N., Palo Alto, CA, UNITED STATES
 Mutz, Mitchell W., Palo Alto, CA, UNITED STATES
 PI US 2002125424 A1 20020912
 US 6710335 B2 20040323
 AI US 2002-66546 A1 20020130 (10)
 RLI Continuation-in-part of Ser. No. US 2001-784705, filed on 14 Feb 2001,
 PENDING
 DT Utility
 FS APPLICATION
 LN.CNT 2280
 INCL INCLM: 250/288.000
 NCL NCIM: 250/288.000
 NCL NCIM: 250/288.000
 NCLS: 073/864.000; 073/864.810; 422/063.000; 422/100.000; 435/030.000;
 436/180.000
 IC [7]
 ICM: H01J049-00
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 38 OF 69 USPATFULL on STN
 AN 2002:209549 USPATFULL
 TI Process for preparing prodrugs of benzenesulfonamide-containing com-2
 inhibitors
 IN Talley, John J., St. Louis, MO, United States
 Malecha, James W., Libertyville, IL, United States
 Bertenshaw, Stephen, Cheshire, CT, United States
 Graneto, Matthew J., Chesterfield, MO, United States
 Carter, Jeffery, Chesterfield, MO, United States
 Li, Jinglin, Hopewell, NJ, United States
 Nagarajan, Srinivasan, Chesterfield, MO, United States
 Brown, David L., Chesterfield, MO, United States
 Rogier, Jr., Donald J., Chesterfield, MO, United States
 Penning, Thomas D., Elmhurst, IL, United States
 Khanna, Ish K., Vernon Hills, IL, United States
 Xu, Xiangdong, Gurnee, IL, United States
 Weiser, Richard M., Lake Bluff, IL, United States
 PA Pharmacia Corporation, St. Louis, MO, United States (U.S. corporation)
 PI US 6436967 B1 20020820
 AI US 2000-661859 20000914 (9)
 RLI Continuation of Ser. No. US 142993, now abandoned Continuation-in-part
 of Ser. No. US 1996-631514, filed on 12 Apr 1996, now abandoned
 DT Utility
 FS GRANTED
 LN.CNT 3052
 INCL INCLM: 514/341.000
 INCLS: 514/377.000; 514/399.000; 514/400.000; 514/403.000; 514/406.000;
 514/602.000; 546/274.100; 546/290.000; 548/225.000; 548/228.000;
 548/229.000; 548/235.000; 548/314.700; 548/315.100; 548/315.400;
 548/335.500; 548/338.500; 548/359.500; 548/375.100; 548/376.100;
 548/377.100; 548/549.000; 548/556.000; 564/084.000; 564/091.000
 NCL NCIM: 514/341.000
 NCLS: 514/377.000; 514/399.000; 514/400.000; 514/403.000; 514/406.000;
 514/602.000; 546/274.100; 546/290.000; 548/225.000; 548/228.000;
 548/229.000; 548/235.000; 548/314.700; 548/315.100; 548/315.400;
 548/335.500; 548/338.500; 548/359.500; 548/375.100; 548/376.100;
 548/377.100; 548/549.000; 548/556.000; 564/084.000; 564/091.000
 IC [7]
 ICM: A61K031-44
 ICS: A61K031-415; C07D263-04; C07D403-02; C07C303-08
 EXF 514/341; 514/374; 514/602; 546/274.1; 546/290; 548/225; 548/228;
 548/229; 548/235; 548/347; 548/315.1; 548/315.4; 548/335.5; 548/338.5;
 548/359.5; 548/375.1; 548/376.1; 548/556; 564/84; 564/91
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 39 OF 69 USPATFULL on STN
 AN 2002:206667 USPATFULL
 TI Hydroxyethyl ureas as inhibitors of alzheimer's beta-amyloid production
 IN Wolfe, Michael S., Newton, MA, UNITED STATES
 Selkoe, Dennis J., Brookline, MA, UNITED STATES
 PI US 2002111365 A1 20020815
 US 6696488 B2 20040224
 AI US 2001-927913 A1 20010810 (9)
 PRAI US 2000-225043P 20000811 (60)
 DT Utility
 FS APPLICATION
 LN.CNT 2040
 INCL INCLM: 514/314.000
 INCLS: 514/478.000; 546/176.000; 560/158.000; 560/024.000
 NCL NCIM: 514/485.000
 NCL NCIM: 514/314.000
 NCLS: 514/314.000; 514/478.000; 514/487.000; 514/595.000; 514/596.000;
 546/176.000; 560/024.000; 560/158.000
 IC [7]
 ICM: A61K031-4709
 ICS: C07D041-02; A61K031-325
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 40 OF 69 USPATFULL on STN
 AN 2002:178749 USPATFULL
 TI Device and method for tracking conditions in an assay
 IN Ellison, Richard N., Palo Alto, CA, UNITED STATES
 Mutz, Mitchell W., Palo Alto, CA, UNITED STATES
 Harris, David L., Mountain View, CA, UNITED STATES
 PI US 2002094537 A1 20020718
 AI US 2001-40925 A1 20011228 (10)
 RLI Continuation-in-part of Ser. No. US 2000-751231, filed on 29 Dec 2000,
 PENDING
 DT Utility
 FS APPLICATION
 LN.CNT 1642
 INCL INCLM: 435/006.000
 INCLS: 435/007.100; 435/287.200; 427/002.110
 NCL NCIM: 435/006.000
 NCLS: 427/002.110; 435/007.100; 435/287.200
 IC [7]
 ICM: C12Q001-68
 ICS: B05D003-00; G01N033-53; C12M001-34
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 41 OF 69 USPATFULL on STN
 AN 2002:164701 USPATFULL
 TI Integrated device with surface-attached molecular moieties and related machine-readable information
 IN Ellison, Richard W., Palo Alto, CA, UNITED STATES
 Foote, James K., Cupertino, CA, UNITED STATES
 Mutz, Mitchell W., Palo Alto, CA, UNITED STATES
 PI US 2002086319 A1 20020704
 AI US 2001-993353 A1 20011113 (9)
 RLI Continuation-in-part of Ser. No. US 2000-712818, filed on 13 Nov 2000, PENDING
 DT Utility
 FS APPLICATION
 LN.CNT 1777
 INCL INCLM: 435/006.000
 INCLS: 702/019.000; 705/040.000
 NCL NCIM: 435/006.000
 NCLS: 702/019.000; 705/040.000
 IC [7]
 ICM: C12Q001-68
 ICS: G06F019-00; G01N033-48; G01N033-50; G06F017-60
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 42 OF 69 USPATFULL on STN
 AN 2002:163464 USPATFULL
 TI Focused acoustic energy in the preparation and screening of combinatorial libraries
 IN Mutz, Mitchell W., Palo Alto, CA, UNITED STATES
 Ellison, Richard W., Palo Alto, CA, UNITED STATES
 PI US 2002085063 A1 20020704
 AI US 2001-962732 A1 20010924 (9)
 RLI Continuation-in-part of Ser. No. US 2000-727392, filed on 29 Nov 2000, PENDING Continuation-in-part of Ser. No. US 2000-669996, filed on 25 Sep 2000, PENDING
 DT Utility
 FS APPLICATION
 LN.CNT 2790
 INCL INCLM: 347/046.000
 NCL NCIM: 347/046.000
 IC [7]
 ICM: B41J002-135

L10 ANSWER 43 OF 69 USPATFULL on STN
 AN 2002:119615 USPATFULL
 TI Focused acoustic energy in the preparation and screening of combinatorial libraries
 IN Mutz, Mitchell W., Palo Alto, CA, UNITED STATES
 Ellison, Richard W., Palo Alto, CA, UNITED STATES
 PI US 2002061598 A1 20020523
 US 6612686 B2 20030902
 AI US 2001-964193 A1 20010925 (9)
 RLI Continuation-in-part of Ser. No. US 2000-727392, filed on 29 Nov 2000, PENDING Continuation-in-part of Ser. No. US 2000-669996, filed on 25 Sep 2000, PENDING
 DT Utility
 FS APPLICATION
 LN.CNT 2804
 INCL INCLM: 436/180.000
 INCLS: 436/154.000; 422/063.000; 422/100.000
 NCL NCIM: 347/046.000
 NCL NCIM: 436/180.000
 NCLS: 422/063.000; 422/100.000; 436/154.000
 IC [7]
 ICM: B01J019-00
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 44 OF 69 USPATFULL on STN
 AN 2002:95786 USPATFULL
 TI 2-amino benzoxazinones for the treatment of viral infections
 IN Aboud, Norman, Morton Grove, IL, United States
 Flynn, Daniel L., Mundelein, IL, United States
 Becker, Daniel P., Glenview, IL, United States
 Bax, Brian M., St. Charles, IL, United States
 Li, Hui, Skokie, IL, United States
 Nosai, Roger A., Buffalo Grove, IL, United States
 Schretzman, Lori A., Gurnee, IL, United States
 Villamil, Clara I., Glenview, IL, United States
 PA G.D. Searle & Co., Chicago, IL, United States (U.S. corporation)
 PI US 6380189 B1 20020430
 AI US 2000-502038 20000211 (9)
 RLI Continuation of Ser. No. US 952624, now abandoned
 DT Utility
 FS GRANTED
 LN.CNT 5040
 INCL INCLM: 514/230.500
 INCLS: 544/092.000
 NCL NCIM: 514/230.500
 NCLS: 544/092.000
 IC [7]
 ICM: A61K031-536
 ICS: C07D265-22
 EXF 544/92; 514/230.5
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 45 OF 69 USPATFULL on STN
 AN 2002:66926 USPATFULL
 TI Acoustic ejection of fluids from a plurality of reservoirs
 IN Ellison, Richard N., Palo Alto, CA, UNITED STATES
 Foote, James K., Cupertino, CA, UNITED STATES
 PI US 2002037579 A1 20020328
 US 6666541 B2 20031223
 AI US 2001-964212 A1 20010925 (9)
 RLI Continuation-in-part of Ser. No. US 2000-727392, filed on 29 Nov 2000,
 PENDING Continuation-in-part of Ser. No. US 2000-669996, filed on 25 Sep
 2000, PENDING
 DT Utility
 FS APPLICATION
 LN.CNT 2602
 INCL INCLM: 435/287.200
 INCLS: 422/100.000; 347/046.000
 NCL NCIM: 347/046.000
 NCL NCIM: 435/287.200
 NCLS: 422/100.000
 IC [7]
 ICM: C12M001-34

L10 ANSWER 46 OF 69 USPATFULL on STN
 AN 2002:66874 USPATFULL
 TI High density molecular arrays on porous surfaces
 IN Ellison, Richard N., Palo Alto, CA, UNITED STATES
 Mutz, Mitchell W., Palo Alto, CA, UNITED STATES
 PI US 2002037527 A1 20020328
 US 6746104 B2 20040608
 AI US 2001-964215 A1 20010925 (9)
 RLI Continuation-in-part of Ser. No. US 2000-727392, filed on 29 Nov 2000,
 PENDING Continuation-in-part of Ser. No. US 2000-669996, filed on 25 Sep
 2000, PENDING
 DT Utility
 FS APPLICATION
 LN.CNT 2343
 INCL INCLM: 435/006.000
 INCLS: 436/518.000
 NCL NCIM: 347/046.000
 NCL NCIM: 435/006.000
 NCLS: 435/006.000; 435/007.100; 436/180.000; 436/518.000
 IC [7]
 ICM: C12Q001-68
 ICS: G01N033-543
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 47 OF 69 USPATFULL on STN
 AN 2002:66707 USPATFULL
 TI Focused acoustic energy in the preparation of peptide arrays
 IN Mutz, Mitchell W., Palo Alto, CA, UNITED STATES
 Ellison, Richard N., Palo Alto, CA, UNITED STATES
 PI US 2002037359 A1 20020328
 AI US 2001-963173 A1 20010925 (9)
 RLI Continuation-in-part of Ser. No. US 2000-669997, filed on 25 Sep 2000,
 PENDING
 DT Utility
 FS APPLICATION
 LN.CNT 1823
 INCL INCLM: 427/002.110
 INCLS: 530/351.000; 530/388.100; 530/399.000; 435/176.000
 NCL NCIM: 427/002.110
 NCLS: 435/176.000; 530/351.000; 530/388.100; 530/399.000
 IC [7]
 ICM: B05D003-00
 ICS: C07K014-52; C07K016-00; A61K038-24
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 48 OF 69 USPATFULL on STN
 AN 2000:84429 USPATFULL
 TI Manganese complexes of nitrogen-containing macrocyclic ligands effective
 as catalysts for dismutating superoxide
 IN Riley, Dennis P., Ballwin, MO, United States
 Weiss, Randy H., St. Louis, MO, United States
 Neuman, William L., Creve Coeur, MO, United States
 Modak, Anil S., Maryland Heights, MO, United States
 Lennon, Patrick J., Clayton, MO, United States
 Aston, Karl W., Pacific, MO, United States
 PA G. D. Searle & Co., Chicago, IL, United States (U.S. corporation)
 PI US 6084093 20000704
 AI US 1995-442147 19950516 (8)
 RLI Division of Ser. No. US 1993-80732, filed on 22 Jun 1993, now abandoned
 which is a continuation of Ser. No. US 1992-902146, filed on 26 Jun
 1992, now abandoned which is a continuation-in-part of Ser. No. US
 1992-829865, filed on 3 Feb 1992, now abandoned which is a
 continuation-in-part of Ser. No. US 1991-732853, filed on 19 Jul 1991,
 now abandoned
 DT Utility
 FS Granted
 LN.CNT 4421
 INCL INCLM: 540/465.000
 INCLS: 540/466.000; 540/468.000
 NCL NCIM: 540/465.000
 NCLS: 540/466.000; 540/468.000
 IC [7]
 ICM: C07D259-00
 ICS: C07D257-00
 EXF 540/465; 514/161
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 49 OF 69 USPATFULL on STN
 AN 1999:146571 USPATFULL
 TI 2-amino-benzoxazinones for the treatment of viral infections
 IN Abood, Norman Anthony, Morton Grove, IL, United States
 Flynn, Daniel L., Libertyville, IL, United States
 Becker, Daniel P., Glenview, IL, United States
 Bas, Brian M., St. Charles, IL, United States
 Li, Hui, Skokie, IL, United States
 Nosal, Roger A., Buffalo Grove, IL, United States
 Schretzman, Lori A., Gurnee, IL, United States
 Villamil, Clara I., Glenview, IL, United States
 PA G.D. Searle & Co., Chicago, IL, United States (U.S. corporation)
 PI US 5985872 19991116
 AI US 1995-448795 19950524 (8)
 DT Utility
 FS Granted
 LN.CNT 5734
 INCL INCLM: 514/230.500
 INCLS: 544/092.000
 NCL NCLM: 514/230.500
 NCLS: 544/092.000
 IC [6]
 ICM: A61K031-535
 ICS: C07D265-22
 EXF 544/92; 514/230.5
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 50 OF 69 USPATFULL on STN
 AN 1999:146537 USPATFULL
 TI Peptide analogs as irreversible interleukin-1 β protease inhibitors
 IN Dolle, Roland E., King of Prussia, PA, United States
 Osifo, Irennegbe K., W. Norrtion, PA, United States
 Schmidt, Stanley J., Chester Springs, PA, United States
 Hoyer, Denton W., Exton, PA, United States
 Ross, Tina Morgan, Anderson, PA, United States
 Chaturvedula, Prasad V., Cheshiye, CT, United States
 Prouty, Catherine P., Doylestown, PA, United States
 Avad, Mohamed M. A., Westerly, RI, United States
 Salvino, Joseph M., Schwenksville, PA, United States
 Rinker, James M., Hamdon, CT, United States
 Lodge, Eric P., Glendale, AZ, United States
 Singh, Jasbir, Gilbertsville, PA, United States
 Ator, Mark A., Paoli, PA, United States
 PA Vertex Pharmaceuticals, Inc., Cambridge, MA, United States (U.S. corporation)
 PI US 5985838 19991116
 AI US 1996-679350 19960710 (8)
 RLI Continuation of Ser. No. US 1995-371723, filed on 12 Jan 1995, now abandoned which is a continuation-in-part of Ser. No. US 1993-55051, filed on 29 Apr 1993, now abandoned
 DT Utility
 FS Granted
 LN.CNT 1226
 INCL INCLM: 514/019.000
 INCLS: 514/017.000; 514/018.000; 530/330.000; 530/331.000; 562/571.000
 NCL NCLM: 514/019.000
 NCLS: 514/017.000; 514/018.000; 530/330.000; 530/331.000; 562/571.000
 IC [6]
 ICM: A61K038-05
 EXF 514/17-19; 530/330; 530/331; 562/571
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 51 OF 69 USPATFULL on STN
 AN 1999:136648 USPATFULL
 TI Methods of diagnostic image analysis using metal complexes of nitrogen-containing macrocyclic ligands
 IN Neumann, William L., 844 Reindeer Dr., Ballwin, MO, United States 63021
 Riley, Dennis P., 800 Chancellor Hts. Dr., Ballwin, MO, United States 63011
 Weiss, Randy H., 3074 Woodbridge Estates, St. Louis, MO, United States 63129
 Henke, Susan L., 123 Parsons Ave., Webster Groves, MO, United States 63119
 Lennon, Patrick J., 7540 Wydown Blvd., Clayton, MO, United States 63105
 Aston, Karl W., 1940 Sunflower Ridge, Pacific, MO, United States 63069
 PI US 5976498 19991102
 AI US 1996-698612 19960816 (8)
 PRAI US 1995-2422P 19950817 (60)
 DT Utility
 FS Granted
 LN.CNT 1333
 INCL INCLM: 424/009.100
 INCLS: 424/009.362; 424/009.300; 424/009.400; 424/009.500; 424/001.650; 514/184.000; 514/186.000; 514/161.000
 NCL NCLM: 424/009.100
 NCLS: 424/001.650; 424/009.300; 424/009.362; 424/009.400; 424/009.500; 514/161.000; 514/184.000; 514/186.000
 IC [6]
 ICM: A61K049-00
 ICS: G01N031-00
 EXF 424/9.361; 424/9.362; 424/1.11; 424/9.1; 424/9.3; 424/9.36; 424/9.4; 424/9.42; 424/9.5; 424/9.6; 424/9.7; 424/9.8; 514/184; 514/186; 514/161; 548/100; 540/1; 540/474; 540/450; 540/465; 534/15; 534/16
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 52 OF 69 USPATFULL on STN
 AN 1999:89174 USPATFULL
 TI Prodrugs of benzenesulfonamide-containing COX-2 inhibitors
 IN Talley, John J., Brentwood, MO, United States
 Malecha, James W., Libertyville, IL, United States
 Bertenshaw, Stephen, Brentwood, MO, United States
 Graneto, Matthew J., St. Louis, MO, United States
 Carter, Jeffery, Chesterfield, MO, United States
 Li, Jinglin, Chesterfield, MO, United States
 Nagarajan, Srinivasan, Chesterfield, MO, United States
 Brown, David L., Chesterfield, MO, United States
 Rogier, Jr., Donald J., Chesterfield, MO, United States
 Penning, Thomas D., Elmhurst, IL, United States
 Khanna, Ish K., Vernon Hills, IL, United States
 Xu, Xiangdong, Evanston, IL, United States
 Weier, Richard M., Lake Bluff, IL, United States
 PA G. D. Searle & Co., Skokie, IL, United States (U.S. corporation)
 PI US 5932598 19990803
 AI US 1998-5610 19980112 (9)
 RLI Continuation of Ser. No. US 1996-631514, filed on 12 Apr 1996, now abandoned
 DT Utility
 FS Granted
 LN.CNT 4101
 INCL INCLM: 514/341.000
 INCLS: 514/374.000; 514/397.000; 514/399.000; 514/403.000; 514/406.000; 514/602.000; 546/274.100; 546/290.000; 548/225.000; 548/228.000; 548/229.000; 548/314.700; 548/315.100; 548/235.000; 548/328.500; 548/335.500; 548/375.100; 548/376.100; 548/377.100; 548/359.500; 548/541.000; 548/544.000; 548/556.000; 564/061.000; 564/084.000
 NCL NCLM: 514/341.000
 NCLS: 514/374.000; 514/397.000; 514/399.000; 514/403.000; 514/406.000; 514/602.000; 546/274.100; 546/290.000; 548/225.000; 548/228.000; 548/229.000; 548/314.700; 548/315.100; 548/328.500; 548/335.500; 548/359.500; 548/375.100; 548/376.100; 548/377.100; 548/541.000; 548/544.000; 548/556.000; 564/061.000; 564/084.000
 IC [6]
 ICM: A61K031-42
 ICS: A61K031-415; A61K031-16; C07D211-72; C07D211-84; C07D263-32; C07D403-02; C07D223-04; C07D231-10; C07D207-00; C07D207-12
 EXF 546/274.1; 546/290; 548/225; 548/228; 548/229; 548/314.7; 548/315.1; 548/315.4; 548/235; 548/375.1; 548/376.1; 548/377.1; 548/359.5; 548/541; 548/544; 548/556; 548/335.5; 548/328.5; 514/341; 514/374; 514/397; 514/399; 514/403; 514/406; 514/602; 564/84; 564/61
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 53 OF 69 USPATFULL on STN
 AN 1999:24640 USPATFULL
 TI Manganese complexes of nitrogen-containing macrocyclic ligands effective as catalysts for dismutating superoxide
 IN Riley, Dennis P., Ballwin, MO, United States
 Weiss, Randy H., St. Louis, MO, United States
 Neuman, William L., Creve Coeur, MO, United States
 Modak, Anil S., Maryland Heights, MO, United States
 Lennon, Patrick J., Clayton, MO, United States
 Aston, Karl W., Pacific, MO, United States
 PA G. D. Searle & Co., Chicago, IL, United States (U.S. corporation)
 PI US 5874421 19990223
 AI US 1995-469064 19950606 (8)
 RLI Continuation of Ser. No. US 1993-80732, filed on 22 Jun 1993, now abandoned And Ser. No. US 1992-902146, filed on 26 Jun 1992, now abandoned And a continuation-in-part of Ser. No. US 1992-829865, filed on 3 Feb 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-732853, filed on 19 Jul 1991, now abandoned
 DT Utility
 FS Granted
 LN.CNT 4628
 INCL INCLM: 514/161.000
 INCLS: 514/183.000; 514/185.000; 540/465.000; 540/472.000; 540/474.000
 NCL NCIM: 514/161.000
 NCLS: 514/183.000; 514/185.000; 540/465.000; 540/472.000; 540/474.000
 IC [6]
 ICM: A61K031-635
 ICS: C07D273-00; C07D225-02
 EXF 540/465; 540/470; 540/474; 514/161
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 54 OF 69 USPATFULL on STN
 AN 1998:19825 USPATFULL
 TI Process for preparing substituted polyazamacrocycles
 IN Lennon, Patrick J., Clayton, MO, United States
 Henke, Susan L., Webster Grove, MO, United States
 Aston, Karl W., Pacific, MO, United States
 PA The Monsanto Company, St. Louis, MO, United States (U.S. corporation)
 PI US 5721361 19980224
 AI US 1996-665070 19960611 (8)
 RLI Continuation of Ser. No. US 1995-486434, filed on 7 Jun 1995, now abandoned
 DT Utility
 FS Granted
 LN.CNT 2348
 INCL INCLM: 540/450.000
 INCLS: 540/451.000; 540/452.000
 NCL NCIM: 540/450.000
 NCLS: 540/451.000; 540/452.000
 IC [6]
 ICM: C07D225-02
 EXF 540/450; 540/451; 540/452
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 55 OF 69 USPATFULL on STN
 AN 97:49628 USPATFULL
 TI Manganese complexes of nitrogen-containing macrocyclic ligands effective as catalysts for dismutating superoxide
 IN Riley, Dennis P., 800 Chancellor Hgts. Dr., Ballwin, MO, United States 63011
 Weiss, Randy H., 11062 "L" Oak Spur Ct., St. Louis, MO, United States 63146
 Neuman, William L., 968 Coventry Ct., Creve Coeur, MO, United States 63141
 Modak, Anil S., 1193 Schulte Hill, Maryland Heights, MO, United States 63043
 Lennon, Patrick J., 7540 Wydown Blvd. #3 W., Clayton, MO, United States 63105
 Aston, Karl W., 19040 Sunflower Ridge La., Pacific, MO, United States 63069
 PI US 5637578 19970610
 AI US 1995-442454 19950516 (8)
 RLI Division of Ser. No. US 1993-80732, filed on 22 Jun 1993 which is a continuation of Ser. No. US 1992-902146, filed on 26 Jun 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-829865, filed on 3 Feb 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-732853, filed on 19 Jul 1991, now abandoned
 DT Utility
 FS Granted
 LN.CNT 4501
 INCL INCLM: 514/186.000
 INCLS: 514/183.000; 514/184.000; 540/472.000; 540/474.000; 540/473.000
 NCL NCIM: 514/186.000
 NCLS: 514/183.000; 514/184.000; 540/472.000; 540/473.000; 540/474.000
 IC [6]
 ICM: C07D487-22
 ICS: A61K031-675; A61K047-16
 EXF 540/474; 540/472; 514/183; 514/186; 514/184
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 56 OF 69 USPATFULL on STN
 AN 97:40822 USPATFULL
 TI Urea ophthalmic ointment and solution
 IN Charlton, Judie F., Morgantown, WV, United States
 Schwab, Ivan R., Sacramento, CA, United States
 PA West Virginia University Research Corporation, Morgantown, WV, United States (U.S. corporation)
 PI US 5629344 19970513
 AI US 1995-453201 19950530 (8)
 RLI Continuation of Ser. No. US 1993-118265, filed on 9 Sep 1993, now patented, Pat. No. US 5470881
 DT Utility
 FS Granted
 LN.CNT 519
 INCL INCLM: 514/588.000
 INCLS: 514/912.000
 NCL NCIM: 514/588.000
 NCLS: 514/912.000
 IC [6]
 ICM: A61K031-17
 EXF 514/588; 514/912
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 57 OF 69 USPATFULL on STN
 AN 97:20660 USPATFULL
 TI Methods of preparing manganese complexes of nitrogen-containing macrocyclic ligands
 IN Riley, Dennis F., Ballwin, MO, United States
 Weiss, Randy H., St. Louis, MO, United States
 Neuman, William L., Creve Coeur, MO, United States
 Modak, Anil S., Maryland Heights, MO, United States
 Lennon, Patrick J., Clayton, MO, United States
 Aston, Karl W., Pacific, MO, United States
 PA Monsanto Company, St. Louis, MO, United States (U.S. corporation)
 PI US 5610293 19970311
 AI US 1995-442455 19950516 (8)
 RLI Division of Ser. No. US 1993-80732, filed on 22 Jun 1993 And a continuation of Ser. No. US 1992-902146, filed on 26 Jun 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-829865, filed on 3 Feb 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-732853, filed on 19 Jul 1991, now abandoned
 DT Utility
 FS Granted
 LN.CNT 4755
 INCL INCLM: 540/474.000
 INCLS: 540/465.000
 NCL NCLM: 540/474.000
 NCLS: 540/465.000
 IC [6]
 ICM: C07D259-00
 ICS: C07D257-00
 EXF 540/474; 514/161; 514/183
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 58 OF 69 USPATFULL on STN
 AN 95:105871 USPATFULL
 TI Urea ophthalmic ointment and solution
 IN Charlton, Judie F., Morgantown, WV, United States
 Schwab, Ivan R., Sacramento, CA, United States
 Stuchell, Robert M., Morgantown, WV, United States
 PA West Virginia University Research Corporation, United States (U.S. corporation)
 PI US 5470881 19951128
 AI US 1993-118265 19930909 (8)
 DT Utility
 FS Granted
 LN.CNT 516
 INCL INCLM: 514/588.000
 INCLS: 514/912.000
 NCL NCLM: 514/588.000
 NCLS: 514/912.000
 IC [6]
 ICM: A61K031-17
 EXF 514/588; 514/912
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 59 OF 69 USPATFULL on STN
 AN 93:43781 USPATFULL
 TI Surfactant treatment of implantable biological tissue to inhibit calcification
 IN Nashief, Aws S., Costa Mesa, CA, United States
 Ahmed, Ahmed I., Riverside, CA, United States
 PA Baxter International Inc., Deerfield, IL, United States (U.S. corporation)
 PI US 5215541 19930601
 AI US 1985-713204 19850318 (6)
 RLI Division of Ser. No. US 1982-441023, filed on 12 Nov 1982, now abandoned
 DT Utility
 FS Granted
 LN.CNT 469
 INCL INCLM: 008/094.110
 INCLS: 623/001.000; 623/002.000; 623/003.000
 NCL NCLM: 128/898.000
 NCLS: 008/094.110; 623/922.000
 IC [5]
 ICM: A61L027-00
 EXF 008/94.11; 008/1; 003/1.4; 003/1.5; 424/333; 424/334; 623/1; 623/2; 623/3
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 60 OF 69 USPATFULL on STN
 AN 89:97065 USPATFULL
 TI Surfactant treatment of implantable biological tissue to inhibit calcification
 IN Nashief, Aws S., Costa Mesa, CA, United States
 Ahmed, Ahmed I., Riverside, CA, United States
 PA Baxter International Inc., Deerfield, IL, United States (U.S. corporation)
 PI US 4885005 19891205
 AI US 1987-20202 19870227 (7)
 RLI Continuation of Ser. No. US 1985-711883, filed on 15 Mar 1985, now abandoned which is a division of Ser. No. US 1982-441023, filed on 12 Nov 1982, now abandoned
 DT Utility
 FS Granted
 LN.CNT 467
 INCL INCLM: 008/094.110
 INCLS: 623/001.000; 623/002.000; 623/003.000
 NCL NCLM: 008/094.110
 NCLS: 623/922.000
 IC [4]
 ICM: A61F001-22
 EXF 008/94.11; 623/1; 623/2; 623/3

L10 ANSWER 61 OF 69 USPAT2 on STN
AN 2003:173873 USPAT2
TI Electrophilic ketones for the treatment of herpesvirus infections
IN Flynn, Daniel L., Clarkson Valley, MO, United States
Zablocki, Jeffery, Lafayette, CO, United States
Williams, Kenneth, Evanston, IL, United States
Hockerman, Susan L., Chicago, IL, United States
PA G. D. Searle & Co., Chicago, IL, United States (U.S. corporation)
PI US 6673788 B2 20040106
AI US 2002-303596 20021125 (10)
RLI Division of Ser. No. US 2000-712002, filed on 14 Nov 2000 Continuation
of Ser. No. US 1998-221016, filed on 23 Dec 1998, now abandoned
Continuation of Ser. No. US 1996-620681, filed on 19 Mar 1996, now
abandoned
DT Utility
FS GRANTED
LN.CNT 1971
INCL INCLM: 514/183.000
INCLS: 514/476.000; 514/535.000; 514/538.000; 514/646.000; 514/678.000;
514/688.000
NCL NCIM: 514/183.000
NCL NCIM: 514/002.000
NCLS: 514/476.000; 514/535.000; 514/538.000; 514/646.000; 514/678.000;
514/688.000; 514/237.800; 514/252.120; 514/256.000; 514/317.000;
514/357.000; 514/365.000; 514/374.000; 514/400.000; 514/415.000;
514/438.000; 514/471.000; 514/616.000; 530/324.000; 544/159.000;
544/330.000; 544/402.000; 546/229.000; 546/329.000; 548/204.000;
548/236.000; 548/335.500; 548/496.000; 564/152.000
IC [7]
ICM: A61K031-33
ICS: A61K031-27; A61K031-245; A61K031-13
EXF 514/183; 514/476; 514/535; 514/538; 514/646; 514/678; 514/688
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 62 OF 69 USPAT2 on STN
AN 2003:100176 USPAT2
TI Process for preparing prodrugs of benzenesulfonamide-containing cox-2
inhibitors
IN Talley, John J., Boston, MA, United States
Malecha, James W., Libertyville, IL, United States
Bertenshaw, Stephen, Cheshire, CT, United States
Granato, Matthew J., Chesterfield, MO, United States
Carter, Jeffery, Chesterfield, MO, United States
Li, Jinglin, Hopewell, NJ, United States
Nagarajan, Srinivasan, Chesterfield, MO, United States
Brown, David L., Chesterfield, MO, United States
Rogier, Jr., Donald J., Kalamazoo, MI, United States
Penning, Thomas D., Elmhurst, IL, United States
Khanna, Ish K., Libertyville, IL, United States
Xu, Xiangdong, Gurnee, IL, United States
Veier, Richard M., Lake Bluff, IL, United States
PA Pharmacia Corporation, St. Louis, MO, United States (U.S. corporation)
PI US 6815460 B2 20041109
AI US 2002-178697 20020624 (10)
RLI Division of Ser. No. US 2000-661859, filed on 14 Sep 2000, now patented,
Pat. No. US 6436967 Continuation of Ser. No. US 142993, now abandoned
Continuation-in-part of Ser. No. US 1996-631514, filed on 12 Apr 1996,
now abandoned
DT Utility
FS GRANTED
LN.CNT 2760
INCL INCLM: 514/378.000
INCLS: 548/247.000
NCL NCIM: 514/378.000
NCL NCIM: 514/357.000
NCLS: 548/247.000; 514/408.000; 514/422.000; 514/602.000; 546/330.000;
548/517.000; 548/577.000; 564/084.000; 564/086.000
IC [7]
ICM: A61K031-42
ICS: C07D261-06
EXF 548/247; 514/378
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 63 OF 69 USPAT2 on STN
AN 2003:77027 USPAT2
TI Acoustic ejection of fluids from a plurality of reservoirs
IN Ellson, Richard N., Palo Alto, CA, United States
Footes, James K., Cupertino, CA, United States
Mutz, Mitchell W., Palo Alto, CA, United States
PA Picoliter Inc., Sunnyvale, CA, United States (U.S. corporation)
PI US 6802593 B2 20041012
AI US 2002-269413 20021011 (10)
RLI Continuation of Ser. No. US 2001-964212, filed on 25 Sep 2001, now
patented, Pat. No. US 6666541, issued on 23 Dec 2003
Continuation-in-part of Ser. No. US 2000-727392, filed on 29 Nov 2000,
now abandoned Continuation-in-part of Ser. No. US 2000-669996, filed on
25 Sep 2000, now abandoned
DT Utility
FS GRANTED
LN.CNT 2563
INCL INCLM: 347/046.000
NCL NCIM: 347/046.000
NCL NCIM: 347/046.000
IC [7]
ICM: B41J002-135
EXF 347/46; 347/44; 347/40; 347/39; 347/47; 264/9; 422/100

L10 ANSWER 64 OF 69 USPAT2 on STN
AN 2002:335702 USPAT2
TI High-throughput biomolecular crystallization and biomolecular crystal
screening
IN Mutz, Mitchell W., Palo Alto, CA, United States
Ellson, Richard N., Palo Alto, CA, United States
Stearns, Richard G., Felton, CA, United States
PA Picoliter Inc., Mountain View, CA, United States (U.S. corporation)
PI US 6808934 B2 20041026
AI US 2002-55245 20020122 (10)
RLI Continuation-in-part of Ser. No. US 2001-765947, filed on 19 Jan 2001,
now abandoned Continuation-in-part of Ser. No. US 2000-727392, filed on
29 Nov 2000, now abandoned Continuation-in-part of Ser. No. US
2000-669996, filed on 25 Sep 2000, now abandoned
DT Utility
FS GRANTED
LN.CNT 3318
INCL INCLM: 436/180.000
INCLS: 436/086.000; 436/174.000; 436/166.000; 436/073.000; 436/001.830
NCL NCIM: 436/180.000
NCL NCIM: 347/046.000
NCLS: 436/073.000; 436/086.000; 436/166.000; 436/174.000; 436/183.000
IC [7]
ICM: G01N001-10
EXF 436/86; 436/174; 436/180; 436/164; 436/166; 073/1.83

L10 ANSWER 65 OF 69 USPAT2 on STN
 AN 2002:305941 USPAT2
 TI Method and system using acoustic ejection for preparing and analyzing a cellular sample surface
 IN Ellison, Richard N., Palo Alto, CA, United States
 Mutz, Mitchell W., Palo Alto, CA, United States
 Caprioli, Richard Michael, Brentwood, TN, United States
 PA Picoliter Inc., Mountain View, CA, United States (U.S. corporation)
 PI US 6809315 B2 20041026
 AI US 2002-87372 20020301 (10)
 RLI Continuation-in-part of Ser. No. US 2002-66546, filed on 30 Jan 2002
 Continuation-in-part of Ser. No. US 2001-784705, filed on 14 Feb 2001,
 now patented, Pat. No. US 6603118
 DT Utility
 FS GRANTED
 LN.CNT 1442
 INCL INCLM: 250/288.000
 INCLS: 436/180.000; 422/100.000; 422/063.000; 435/030.000; 073/864.000;
 073/864.810
 NCL NCLM: 250/288.000
 NCLM: 250/288.000
 NCLS: 073/864.000; 073/864.810; 422/063.000; 422/100.000; 435/030.000;
 436/180.000
 IC [7]
 ICH: H01J049-04
 ICS: G01N001-10; G01N035-10
 EXF 250/288; 436/180; 422/100; 422/63; 435/30; 073/864
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 66 OF 69 USPAT2 on STN
 AN 2002:233260 USPAT2
 TI Acoustic sample introduction for analysis and/or processing
 IN Ellison, Richard N., Palo Alto, CA, United States
 Mutz, Mitchell W., Palo Alto, CA, United States
 PA Picoliter Inc., Sunnyvale, CA, United States (U.S. corporation)
 PI US 6710335 B2 20040323
 AI US 2002-66546 20020130 (10)
 RLI Continuation-in-part of Ser. No. US 2001-784705, filed on 14 Feb 2001,
 now patented, Pat. No. US 6603118
 DT Utility
 FS GRANTED
 LN.CNT 2110
 INCL INCLM: 250/288.000
 INCLS: 436/180.000; 422/100.000; 422/063.000; 435/030.000; 073/864.000;
 073/864.810
 NCL NCLM: 250/288.000
 NCLM: 250/288.000
 NCLS: 073/864.000; 073/864.810; 422/063.000; 422/100.000; 435/030.000;
 436/180.000
 IC [7]
 ICH: H01J049-04
 ICS: G01N001-10; G01N035-10
 EXF 250/288; 436/180; 422/63; 422/100; 435/30; 073/864; 073/864.81
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 67 OF 69 USPAT2 on STN
 AN 2002:119615 USPAT2
 TI Focused acoustic energy in the preparation and screening of combinatorial libraries
 IN Mutz, Mitchell W., Palo Alto, CA, United States
 Ellison, Richard N., Palo Alto, CA, United States
 PA Picoliter Inc., Sunnyvale, CA, United States (U.S. corporation)
 PI US 6612686 B2 20030902
 AI US 2001-964193 20010925 (9)
 RLI Continuation-in-part of Ser. No. US 2000-727392, filed on 29 Nov 2000,
 now abandoned Continuation-in-part of Ser. No. US 2000-669996, filed on
 25 Sep 2000, now abandoned
 DT Utility
 FS GRANTED
 LN.CNT 2753
 INCL INCLM: 347/046.000
 NCL NCLM: 347/046.000
 NCLM: 436/180.000
 NCLS: 422/063.000; 422/100.000; 436/154.000
 IC [7]
 ICH: B41J002-135
 EXF 347/46; 347/1; 347/9; 347/11-12; 347/52; 347/54; 347/20; 347/44; 347/55;
 347/15; 347/10; 347/40; 347/121; 205/81; 502/104; 502/1; 502/2; 502/102;
 502/103; 436/501; 204/298.11; 204/298.12
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 68 OF 69 USPAT2 on STN
 AN 2002:66926 USPAT2
 TI Acoustic ejection of fluids from a plurality of reservoirs
 IN Ellison, Richard N., Palo Alto, CA, United States
 Foote, James W., Cupertino, CA, United States
 Mutz, Mitchell W., Palo Alto, CA, United States
 PA Picoliter Inc., Sunnyvale, CA, United States (U.S. corporation)
 PI US 6666541 B2 20031223
 AI US 2001-964212 20010925 (9)
 RLI Continuation-in-part of Ser. No. US 2000-727392, filed on 29 Nov 2000
 Continuation-in-part of Ser. No. US 2000-669996, filed on 25 Sep 2000
 DT Utility
 FS GRANTED
 LN.CNT 2560
 INCL INCLM: 347/046.000
 NCL NCLM: 347/046.000
 NCLM: 435/287.200
 NCLS: 422/100.000
 IC [7]
 ICH: B41J002-135
 EXF 347/46-48; 347/101; 347/107; 347/10; 347/6; 347/40; 347/43; 347/44;
 347/55; 347/75; 436/180; 427/2.11; 427/600; 435/6

L10 ANSWER 69 OF 69 USPAT2 on STN
AN 2002:66874 USPAT2
TI Method for generating molecular arrays on porous surfaces
IN Ellison, Richard N., Palo Alto, CA, United States
Mutz, Mitchell W., Palo Alto, CA, United States
Foots, James K., Cupertino, CA, United States
PA PicoLitter Inc., Sunnyvale, CA, United States (U.S. corporation)
PI US 6746104 B2 20040608
AI US 2001-964215 20010925 (9)
RLI Continuation-in-part of Ser. No. US 2000-727392, filed on 29 Nov 2000,
now abandoned Continuation-in-part of Ser. No. US 2000-669996, filed on
25 Sep 2000, now abandoned
DT Utility
FS GRANTED
LN.CNT 2324
INCL INCLM: 347/046.000
INCLS: 435/006.000; 435/007.100; 436/180.000
NCL NCLM: 347/046.000
NCL INCLS: 435/006.000; 435/007.100; 436/180.000; 436/518.000
IC [7]
ICM: B41J002-135
EXF 435/6; 435/7.1; 435/287.2; 435/DIG.49; 436/180; 436/524-530; 347/46;
205/81
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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=> s aspartam?(5a)(sulfamid? or sulfonamid?)  
L11      1 ASPARTAM?(5A)(SULFAMID? OR SULFONAMID?)  
  
=> d
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L11 ANSWER 1 OF 1 USPATFULL on STN
AN 2003:146848 USPATFULL
TI Oral dosage form of a sulfonamide product
IN Karim, Aziz, Skokie, IL, UNITED STATES
Nema, Sandeep, Grayslake, IL, UNITED STATES
Ewing, Gary D., Kalamazoo, MI, UNITED STATES
PI US 2003100595 A1 20030529
AI US 2002-292682 A1 20021112 (10)
PRAI US 2001-350596P 20011113 (60)
DT Utility
FS APPLICATION
LN.CNT 1270
INCL INCLM: 514/406.000
INCL INCLS: 514/471.000
NCL NCLM: 514/406.000
NCLS: 514/471.000
IC [7]
ICM: A61K031-415
ICS: A61K031-365
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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DICTIONARY FILE UPDATES: 11 AUG 2005 HIGHEST RN 859751-76-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

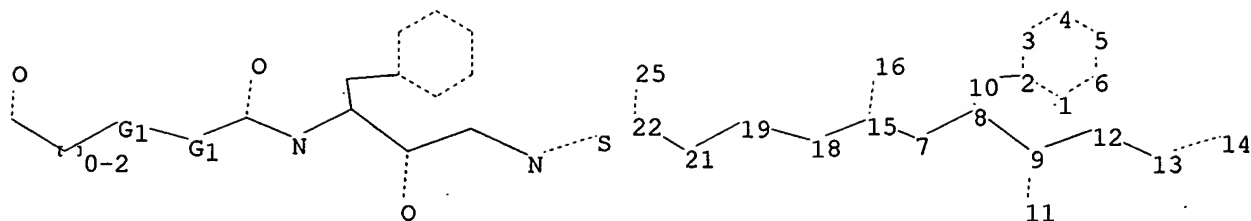
Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10784916\10784916i.str



chain nodes :

7 8 9 10 11 12 13 14 15 16 18 19 21 22 25

ring nodes :

1 2 3 4 5 6

chain bonds :

2-10 7-8 7-15 8-9 8-10 9-11 9-12 12-13 13-14 15-16 15-18 18-19 19-21
21-22 22-25

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-15 9-11 12-13 13-14 15-16 15-18 18-19
19-21 22-25

exact bonds :

2-10 8-9 8-10 9-12 21-22

G1:C,N

Match level :

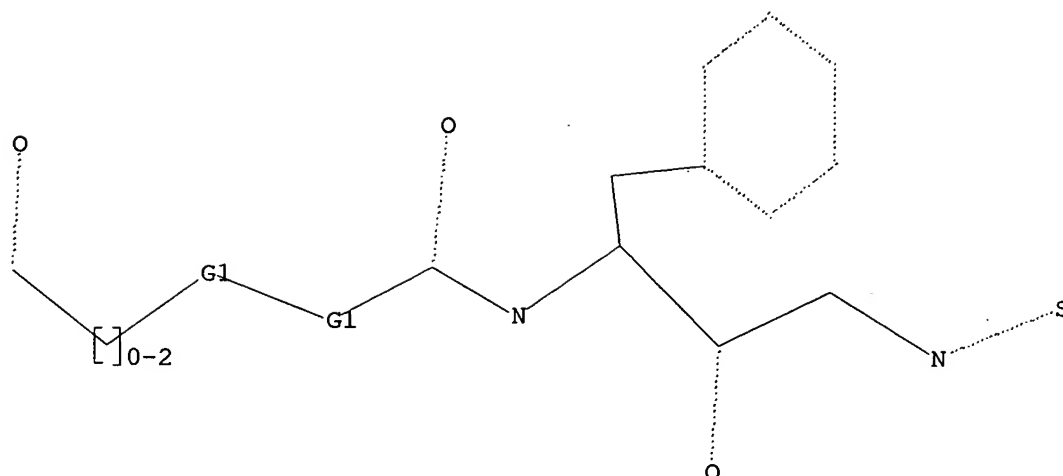
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 18:CLASS 19:CLASS
21:CLASS 22:CLASS 25:CLASS

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 C,N

Structure attributes must be viewed using STN Express query preparation.

=> s L1

SAMPLE SEARCH INITIATED 15:10:30 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 110 TO ITERATE

100.0% PROCESSED 110 ITERATIONS 39 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1571 TO 2829
PROJECTED ANSWERS: 406 TO 1154

L2 39 SEA SSS SAM L1

=> s L1 full

FULL SEARCH INITIATED 15:10:34 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2448 TO ITERATE

100.0% PROCESSED 2448 ITERATIONS 766 ANSWERS
SEARCH TIME: 00.00.01

L3 766 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.33	161.54

FILE 'CAPLUS' ENTERED AT 15:10:37 ON 12 AUG 2005
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FILE COVERS 1907 - 12 Aug 2005 VOL 143 ISS 8
FILE LAST UPDATED: 11 Aug 2005. (20050811/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s L3

L4 64 L3

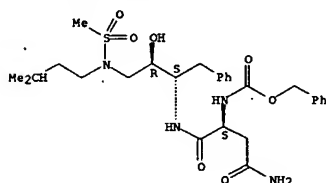
=> d 55-64 ibib abs hitstr

L4 ANSWER 55 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1995:352211 CAPLUS
 DOCUMENT NUMBER: 122:204547
 TITLE: Inhibitors of HIV-1 Protease Containing the Novel and Potent (R)-(Hydroxyethyl)sulfonamide Isostere
 AUTHOR(S): Vazquez, Michael L.; Bryant, Martin L.; Clare, Michael; DeCrescenzo, Gary A.; Doherty, Elizabeth M.; Freskos, John N.; Getman, Daniel P.; Houseman, Kathryn A.; Julien, Janet A.; et al.
 CORPORATE SOURCE: Searle Discovery Research, Skokie, IL, 60077, USA
 SOURCE: Journal of Medicinal Chemistry (1995), 38(4), 581-4
 CODEN: JMCMAA; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 122:204547

AB The authors have prepared and tested a series of novel and highly potent HIV-1 protease inhibitors based on the (R)-(hydroxyethyl)sulfonamide isostere. The isostere exhibits enhanced potency relative to the previously reported (hydroxyethyl)urea isostere. The preferred stereochem. for the critical hydroxyl group is R. X-ray crystallog. studies show that these inhibitors bind to the protease in an extended fashion with one of the sulfonamide oxygens forming a hydrogen bond to the key structural water mol. Some of the compds. showed excellent antiviral activity in vitro.

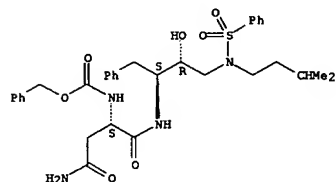
IT 159005-90-0
 RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study) (inhibitors of HIV-1 protease containing novel and potent (R)-(hydroxyethyl)sulfonamide isostere in relation to antiviral activity)
 RN 159005-90-0 CAPLUS
 CN 2-Thia-3,7,10-triazaundecan-11-oic acid, 9-(2-amino-2-oxoethyl)-5-hydroxy-3-(3-methylbutyl)-8-oxo-6-(phenylmethyl)-, phenylmethyl ester, 2,2-dioxide, (5R,6S,9S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



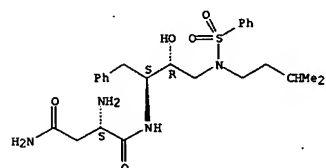
IT 159005-91-1P
 RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (inhibitors of HIV-1 protease containing novel and potent (R)-(hydroxyethyl)sulfonamide isostere in relation to antiviral activity)
 RN 159005-91-1 CAPLUS

L4 ANSWER 55 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



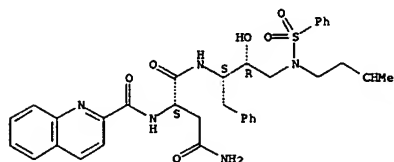
IT 159006-06-1P
 RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (inhibitors of HIV-1 protease containing novel and potent (R)-(hydroxyethyl)sulfonamide isostere in relation to antiviral activity)
 RN 159006-06-1 CAPLUS
 CN Butanediamide, 2-amino-N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



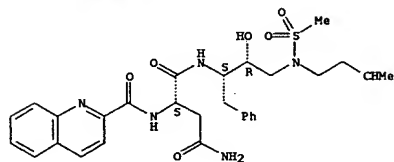
L4 ANSWER 55 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 159005-89-7P 159005-92-2P
 RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (inhibitors of HIV-1 protease containing novel and potent (R)-(hydroxyethyl)sulfonamide isostere in relation to antiviral activity)
 RN 159005-89-7 CAPLUS
 CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(methylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



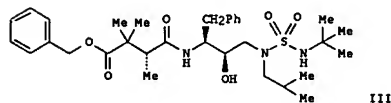
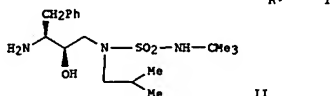
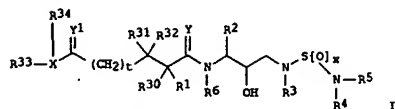
RN 159005-92-2 CAPLUS
 CN Carbamic acid, [(1S)-3-amino-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-3-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 56 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:340526 CAPLUS
 DOCUMENT NUMBER: 122:133838
 TITLE: preparation of succinoylamino hydroxyethylamino sulfamic acid derivatives as retroviral protease inhibitors
 INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel P.; De Crescenzo, Gary A.; Sun, Eric T.
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Monsanto Co.
 SOURCE: PCT Int. Appl.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9410133	A1	19940511	WO 1993-US10460	19931029
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CH, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2141570	AA	19940511	CA 1993-2141570	19931029
AU 9455892	A1	19940524	AU 1994-55892	19931029
EP 666841	A1	19950816	EP 1994-901230	19931029
EP 666841	B1	19970122		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
AT 148105	E	19970215	AT 1994-901230	19931029
ES 2097023	T3	19970316	ES 1994-901230	19931029
US 5602119	A	19970211	US 1995-379573	19950131
PRIORITY APPLN. INFO.:			US 1992-969683	A 19921030
			WO 1993-US10460	W 19931029
OTHER SOURCE(S):		MARPAT 122:133838		
GI				



AB Title compds. [I: R1 = H, CH₂-SO₂-NH₂, CH₂-CO₂Me, CO₂Me, CONH₂, CH₂-CO-NHMe, CH₂-SH, etc.; R2 = alkyl, aryl, cycloalkyl, cycloalkylalkyl, NO₂, cyano, CF₃, OH, SH, alkoxy, etc.; R3 = alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl, etc.; R4, R5 = H, any group in the definition of R3; R6 = H, alkyl; R30, R31, R32 = H, alkyl, alkenyl, alkynyl, etc.; R33, R34 = H, any group in the definition of R3, or R33 and R34 together with X = cycloalkyl, aryl, heterocyclyl, heteroaryl provided that when X = O, R34 = nil; X = N, O, CR17; R17 = H, alkyl; x = 1, 2; t = 0, 1, 2; Y, Y1 = O, S, NR15; R15 = H, any group in the definition of R3], effective as retroviral protease inhibitors, and in particular as inhibitors of HIV protease, are prepared Thus, 4-benzyl 2(R),3,3-trimethylsuccinate was condensed with the [(tert-butylamino)sulfonyl]amino]propylamine derivative II (preparation given) in

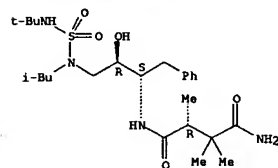
DMF containing HOBT and 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride to give the title compound III. III had an IC₅₀ of 1.4 μM against retroviral protease in an in vitro study. The title compds. were also compared with AZT in a CEM cell assay.

IT 160677-29-2P 160765-62-8P 160765-64-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for retroviral protease inhibitors)
RN 160677-29-2 CAPLUS
CN L-Valinamide, N,N-dimethylglycyl-N-[2-hydroxy-3-[(2-methylpropyl) (1-piperidinylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-methyl-, [R-(R*,S*)]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

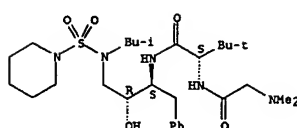
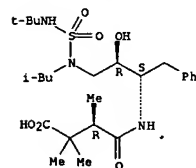
RN 160765-56-0 CAPLUS
CN Butanediame, N4-[[[(1S,2R)-3-[[[(1,1-dimethylethyl)amino]sulfonyl] (2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (R*)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



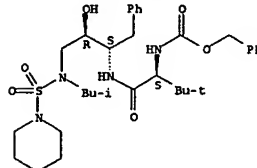
RN 160765-57-1 CAPLUS
CN 4-Thia-3,5,9-triazatridecan-13-ic acid, 7-hydroxy-2,2,11,12,12-pentamethyl-5-(2-methylpropyl)-10-oxo-8-(phenylmethyl)-, 4,4-dioxide, [7R-(7R*,8S*,11R*)]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



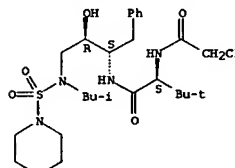
RN 160765-62-8 CAPLUS
CN Carbamic acid, 1-[[[2-hydroxy-3-[(2-methylpropyl) (1-piperidinylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-2,2-dimethylpropyl-, phenylmethyl ester, [1S-[1R*(R*),2S*]]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 160765-64-0 CAPLUS
CN Butanamide, 2-[(chloroacetyl)amino]-N-[2-hydroxy-3-[(2-methylpropyl) (1-piperidinylsulfonyl)amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-, [1S-[1R*(R*),2S*]]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

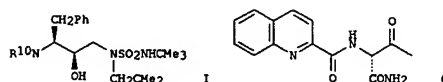


IT 160765-56-0P 160765-57-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as retroviral protease inhibitor)

ACCESSION NUMBER: 1995:330514 CAPLUS
DOCUMENT NUMBER: 122:106521
TITLE: Preparation of N-sulfamidohydroxyalkyl amino acid amides as retroviral protease inhibitors
INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel P.; Decrescenzo, Gary A.; Sun, Eric T.
PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Monsanto Co.
SOURCE: PCT Int. Appl., 153 pp.
CODEN: PIXX02
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9410134	A1	19940511	WO 1993-US10552	19931029
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CH, GA, GN, GL, HR, HU, IL, IN, IS, IT, JP, KE, KG, KH, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
CA 2142997	AA	19940511	CA 1993-2142997	19931029
AU 9455470	A1	19940524	AU 1994-55470	19931029
EP 666842	A1	19950816	EP 1994-900506	19931029
EP 666842	B1	19980624		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
EP 810208	A2	19971203	EP 1997-113206	19931029
EP 810208	A3	19981202		
EP 810208	B1	20020102		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, PT, IE				
AT 167669	E	19980715	AT 1994-900506	19931029
ES 2118364	T3	19980916	ES 1994-900506	19931029
AT 211462	E	20020115	AT 1997-113206	19931029
PT 810208	T	20020628	PT 1997-113206	19931029
ES 2170305	T3	20020801	ES 1997-113206	19931029
US 6156768	A	20001205	US 1995-379545	19950202
US 6444678	B1	20020903	US 2000-633063	20000804
US 2003158236	A1	20030821	US 2002-178956	20020625
PRIORITY APPLN. INFO.:				
US 1992-968730			A 19921030	
EP 1994-900506			A3 19931029	
WO 1993-US10552			W 19931029	
US 1995-379545			A3 19950202	
US 2000-633063			A1 20000804	

OTHER SOURCE(S): HARPAT 122:106521
GI



AB RR*N(CA7R8)tCHRIC(:Y)NR6CH2CH(OH)CH2NR3SOxNR4R5 [R = H, (cyclo)alkyl, (hetero)aryl, alkyl(oxy)carbonyl, heterocyclyl(oxy)carbonyl, etc.; R' =

L4 ANSWER 57 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
groups cited for R3, R'SO2; R'' = groups cited for R3; RRR' = heterocyclyl, heteroaryl; R1,R7,R8 = H, (halo)alkyl, amino acid side chain, CONH2, CO2Me, etc.; R1R7 = atoms to form a cycloalkyl group; R2 = (un)substituted (cyclo)alkyl, aryl(alkyl); R3 = (cyclo)alkyl, (hetero)aryl(alkyl), aminoalkyl, etc.; R4,R5 = H, groups cited for R3; NR4R5 = heterocyclyl, heteroaryl; R6 = H, alkyl; Y = O, S, NH, NR3; t = 0-2; x = 1 or 2; were prepd. Thus, N-benzylloxycarbonyl-3(S)-amino-1,2(S)-epoxy-4-phenylbutane (prepn. given) was condensed with Me2CCHCH2NH2 and the product amidated by ClSO2NHMe3 (prepn. given) to give, after deprotection, sulfamide I (R10 = H) which was N-acylated by N-BOC-L-asparagine and the deprotected product N-acylated by quinoline-2-carboxylic acid to give I (R10 = quinolinoylasparaginy group Q). The latter had IC50 of 2nM against HIV-1 infection of CEM cells in vitro.

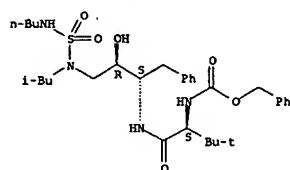
IT 160677-07-6P 160677-10-1P 160677-11-2P
160677-13-4P 160677-14-5P 160677-15-6P
RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in preparation of retroviral protease inhibitor)

RN 160677-07-6 CAPLUS

CN 10-Thia-2,5,9,11-tetraazapentadecanoic acid, 3-(1,1-dimethylethyl)-7-hydroxy-9-(2-methylpropyl)-4-oxo-6-(phenylmethyl)-, phenylmethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

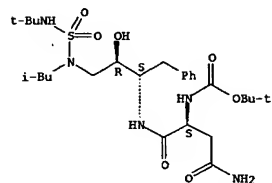


RN 160677-10-1 CAPLUS

CN Carbanic acid, [3-amino-1-[[[2-hydroxy-3-[[[4-methyl-1-piperazinyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-3-oxopropyl]-, 1,1-dimethylethyl ester, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

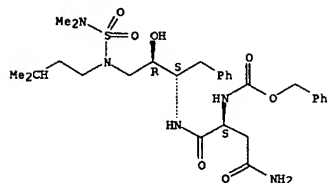
L4 ANSWER 57 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 160677-14-5 CAPLUS

CN 3-Thia-2,4,8,11-tetraazadodecan-12-oic acid, 10-(2-amino-2-oxoethyl)-6-hydroxy-2-methyl-4-(3-methylbutyl)-9-oxo-7-(phenylmethyl)-, phenylmethyl ester, 3,3-dioxide, [6R-(6R*,7S*,10S*)]- (9CI) (CA INDEX NAME)

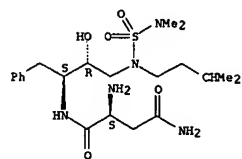
Absolute stereochemistry.



RN 160677-15-6 CAPLUS

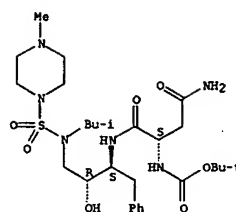
CN Butanediamide, 2-amino-N1-[3-[[[dimethylamino)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 160676-88-0P 160676-89-1P 160676-90-4P
160676-91-5P 160676-92-6P 160676-93-7P

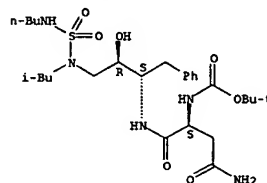
L4 ANSWER 57 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 160677-11-2 CAPLUS

CN 10-Thia-2,5,9,11-tetraazapentadecanoic acid, 3-(2-amino-2-oxoethyl)-7-hydroxy-9-(2-methylpropyl)-4-oxo-6-(phenylmethyl)-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 160677-13-4 CAPLUS

CN 10-Thia-2,5,9,11-tetraazapentadecanoic acid, 3-(2-amino-2-oxoethyl)-7-hydroxy-12,12-dimethyl-9-(2-methylpropyl)-4-oxo-6-(phenylmethyl)-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 57 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

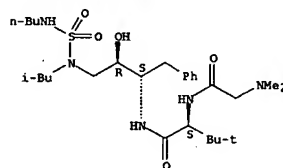
160676-94-8P 160677-16-7P 160677-18-9P
160677-27-0P 160677-28-1P 160677-29-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. of, as retroviral protease inhibitor)

RN 160676-88-0 CAPLUS

CN L-Valinamide, N,N-dimethylglycyl-N-[3-[[[butylamino)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-3-methyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

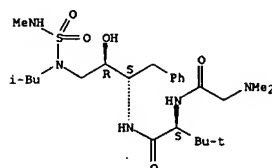
Absolute stereochemistry.



RN 160676-89-1 CAPLUS

CN L-Valinamide, N,N-dimethylglycyl-N-[2-hydroxy-3-[[[methylamino)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-3-methyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

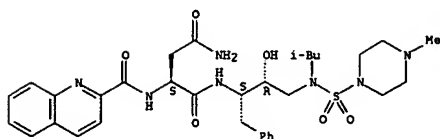
Absolute stereochemistry.



RN 160676-90-4 CAPLUS

CN Butanediamide, N1-[3-[[[4-methyl-1-piperazinyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[[[2-quinolinylcarbonyl]amino]-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

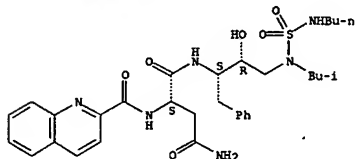
Absolute stereochemistry.



RN 160676-91-5 CAPLUS

CN Butanediamide, N1-[3-[[[(butylamino)sulfonyl] (2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

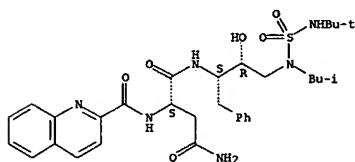
Absolute stereochemistry.



RN 160676-92-6 CAPLUS

CN Butanediamide, N1-[3-[[[(1,1-dimethylethyl)amino]sulfonyl] (2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

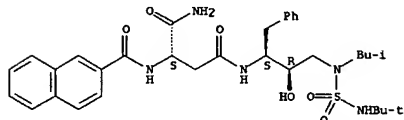
Absolute stereochemistry.



RN 160676-93-7 CAPLUS

CN Butanediamide, N1-[2-hydroxy-3-[(2-methylpropyl) [(phenylamino)sulfonyl]amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

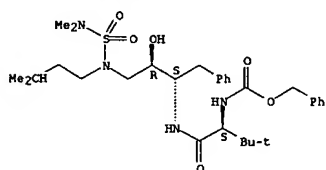
Absolute stereochemistry.



RN 160677-27-0 CAPLUS

CN 3-Thia-2,4,8,11-tetraazadodecan-12-oic acid, 10-[(1,1-dimethylethyl)-6-hydroxy-2-methyl-4-[(3-methylbutyl)-9-oxo-7-(phenylmethyl)-, phenylmethyl ester, 3,3-dioxide, [6R-(6R*,7S*,10S*)]]- (9CI) (CA INDEX NAME)

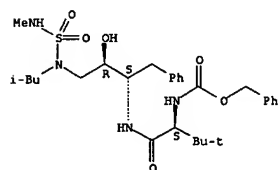
Absolute stereochemistry.



RN 160677-28-1 CAPLUS

CN 3-Thia-2,4,8,11-tetraazadodecan-12-oic acid, 10-[(1,1-dimethylethyl)-6-hydroxy-4-(2-methylpropyl)-9-oxo-7-(phenylmethyl)-, phenylmethyl ester, 3,3-dioxide, [6R-(6R*,7S*,10S*)]]- (9CI) (CA INDEX NAME)

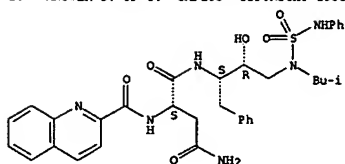
Absolute stereochemistry.



RN 160677-29-2 CAPLUS

CN L-Valinamide, N,N-dimethylglycyl-N-[2-hydroxy-3-[(2-methylpropyl) (1-piperidinyl)sulfonyl]amino]-1-(phenylmethyl)propyl]-3-methyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

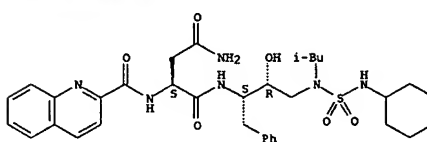
Absolute stereochemistry.



RN 160676-94-8 CAPLUS

CN Butanediamide, N1-[3-[[[(cyclohexylamino)sulfonyl] (2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

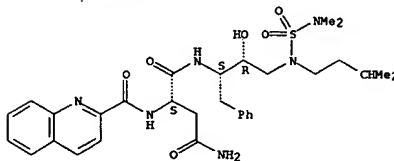
Absolute stereochemistry.



RN 160677-16-7 CAPLUS

CN Butanediamide, N1-[3-[[[(dimethylamino)sulfonyl] (3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

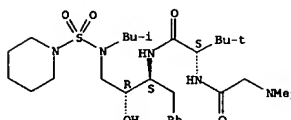
Absolute stereochemistry.

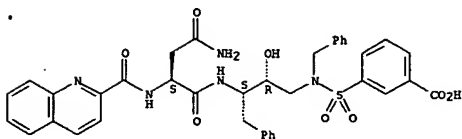


RN 160677-18-9 CAPLUS

CN Butanediamide, N4-[(1S,2R)-3-[[[(1,1-dimethylethyl)amino]sulfonyl] (2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-naphthalenylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

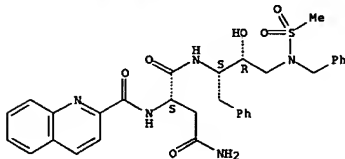
Absolute stereochemistry.





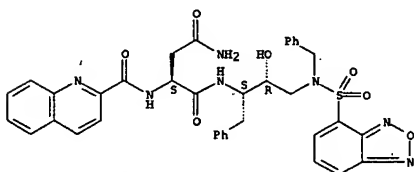
RN 160230-12-6 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(methylsulfonyl)(phenylmethyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



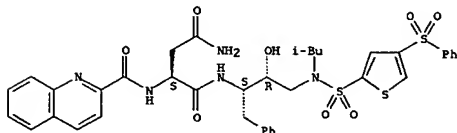
RN 160230-13-7 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(2,1,3-benzoxadiazol-4-ylsulfonyl)(phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



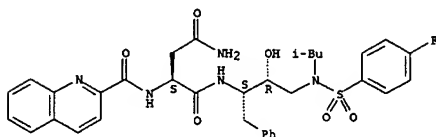
RN 160230-14-8 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(3-(aminosulfonyl)phenyl)sulfonyl](phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



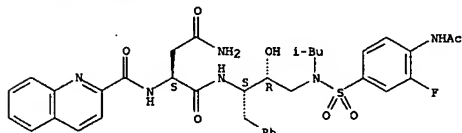
RN 160230-18-2 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(4-(4-fluorophenyl)sulfonyl](2-methylpropyl)amino)-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



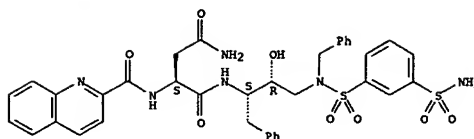
RN 160230-19-3 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(4-(acetylamino)-3-fluorophenyl)sulfonyl](2-methylpropyl)amino)-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



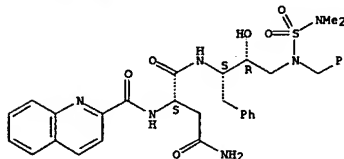
RN 160230-20-6 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(3-(acetylamino)-4-fluorophenyl)sulfonyl](2-methylpropyl)amino)-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



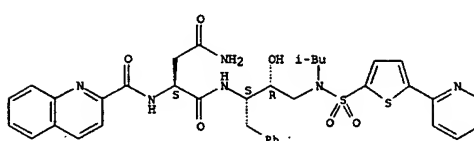
RN 160230-15-9 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(dimethylamino)sulfonyl](phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



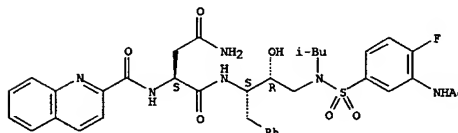
RN 160230-16-0 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[(5-(2-pyridinyl)-2-thienyl)sulfonyl]amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



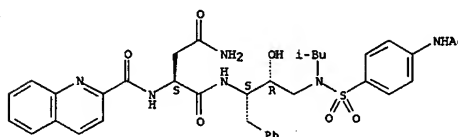
RN 160230-17-1 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[(4-(phenylsulfonyl)-2-thienyl)sulfonyl]amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



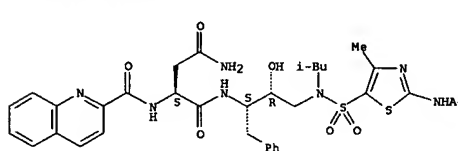
RN 160230-21-7 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(4-(acetylamino)phenyl)sulfonyl](2-methylpropyl)amino)-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



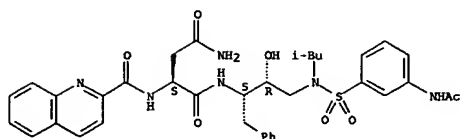
RN 160230-22-8 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(2-(acetylamino)-4-methyl-5-thiazolyl)sulfonyl](2-methylpropyl)amino)-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



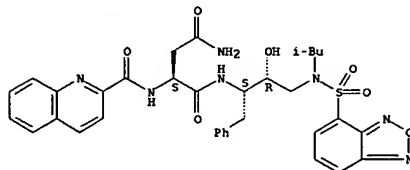
RN 160230-23-9 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(3-(acetylamino)phenyl)sulfonyl](2-methylpropyl)amino)-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



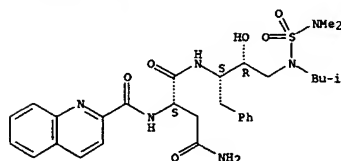
RN 160230-24-0 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(2,1,3-benzoxadiazol-4-ylsulfonyl)(2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 160230-25-1 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(dimethylamino)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 160230-27-3 CAPLUS
CN Carbanic acid, [(1S)-1-[[[(1S,2R)-3-[[[4-(acetylamino)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylpropyl]-, 2-pyridinylmethyl ester, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

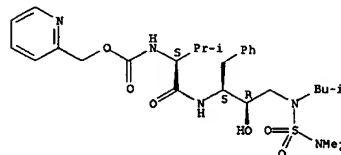


RN 160230-31-9 CAPLUS
CN 3-Thia-2,4,8,11-tetraazadodecan-12-oic acid, 6-hydroxy-2-methyl-10-(1-methylethyl)-4-(2-methylpropyl)-9-oxo-7-(phenylmethyl)-, 2-pyridinylmethyl ester, 3,3-dioxide, (6R,7S,10S)-, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 160230-30-8
CMF C28 H43 N5 O6 S

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2



RN 160230-33-1 CAPLUS
CN Carbanic acid, [(1S)-1-[[[(1S,2R)-3-[(2,1,3-benzoxadiazol-4-ylsulfonyl)(2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylpropyl]-, 3-pyridinylmethyl ester, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

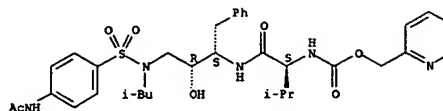
CM 1

CRN 160230-32-0
CMF C32 H40 N6 O7 S

Absolute stereochemistry.

CM 1
CRN 160230-26-2
CMF C34 H45 N5 O7 S

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2

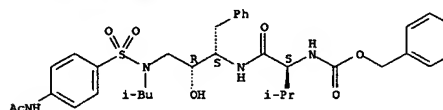


RN 160230-29-5 CAPLUS
CN Carbanic acid, [(1S)-1-[[[(1S,2R)-3-[[[4-(acetylamino)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylpropyl]-, 4-pyridinylmethyl ester, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

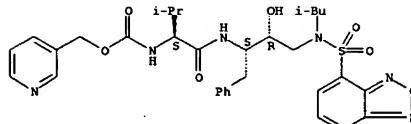
CRN 160230-28-4
CMF C34 H45 N5 O7 S

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2



CM 2

CRN 76-05-1
CMF C2 H F3 O2

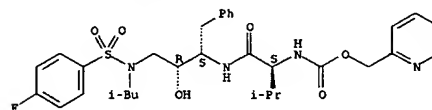


RN 160230-35-3 CAPLUS
CN Carbanic acid, [(1S)-1-[[[(1S,2R)-3-[[[4-(fluorophenyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylpropyl]-, 2-pyridinylmethyl ester, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 160230-34-2
CMF C32 H41 F N4 O6 S

Absolute stereochemistry.



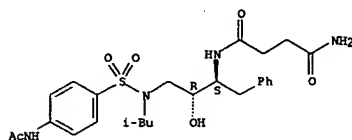
CM 2

CRN 76-05-1
CMF C2 H F3 O2



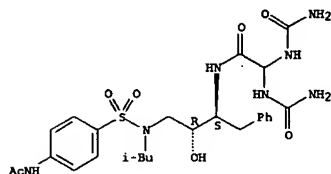
RN 160230-50-2 CAPLUS
CN Butanediamide, N-[(1S,2R)-3-[[[4-(acetylamino)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



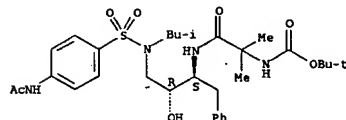
RN 160230-72-8 CAPLUS
CN Acetamide, N-[(1S,2R)-3-[[[4-(acetylamino)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2,2-bis[(aminocarbonyl)amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



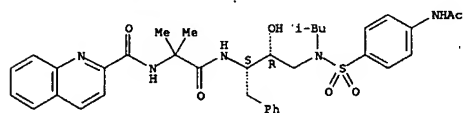
RN 160231-88-9 CAPLUS
CN 2-Thia-3,7,10-triazadecan-11-ic acid, 5-hydroxy-9-[(1S)-1-methylpropyl]-8-oxo-1-phenyl-3,6-bis(phenylmethyl)-, phenylmethyl ester, 2,2-dioxide, (5R,6S,9S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



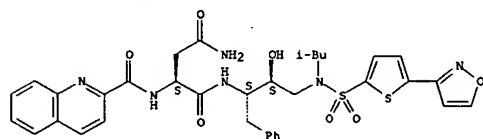
RN 160231-92-5 CAPLUS
CN 2-Quinolinescarboxamide, N-[2-[[[(1S,2R)-3-[[[4-(acetylamino)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-1,1-dimethyl-2-oxoethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



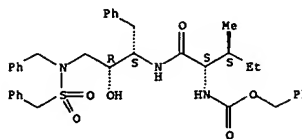
RN 160231-93-6 CAPLUS
CN Butanediamide, N1-[(1S,2S)-2-hydroxy-3-[[[5-(3-isoxazolyl)-2-thienyl]sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



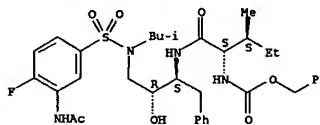
RN 160231-96-9 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[[[4-(acetylamino)-3-fluorophenyl]sulfonyl](phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



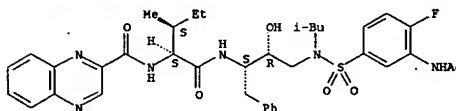
RN 160231-89-0 CAPLUS
CN Carbamic acid, [(1S,2S)-1-[[[(1S,2R)-3-[[[3-(acetylamino)-4-fluorophenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylbutyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



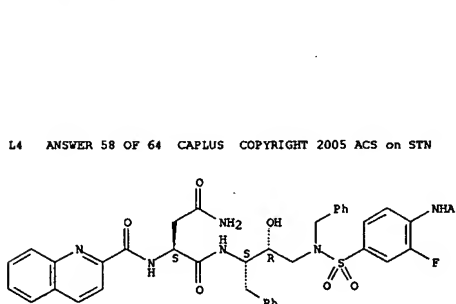
RN 160231-90-3 CAPLUS
CN 2-Quinolinescarboxamide, N-[(1S,2S)-1-[[[(1S,2R)-3-[[[3-(acetylamino)-4-fluorophenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylbutyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



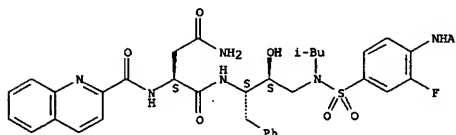
RN 160231-91-4 CAPLUS
CN Carbamic acid, [2-[[[(1S,2R)-3-[[[4-(acetylamino)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-1,1-dimethyl-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



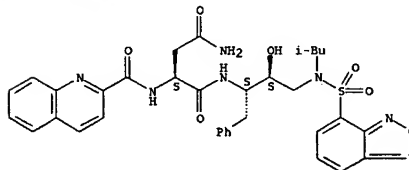
RN 160333-42-6 CAPLUS
CN Butanediamide, N1-[(1S,2S)-3-[[[4-(acetylamino)-3-fluorophenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



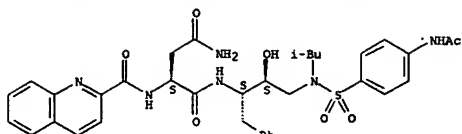
RN 160333-43-7 CAPLUS
CN Butanediamide, N1-[(1S,2S)-3-[[[2,1,3-benzoxadiazol-4-ylsulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 160333-44-8 CAPLUS
CN Butanediamide, N1-[(1S,2S)-3-[[[4-(acetylamino)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

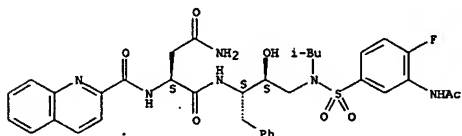
Absolute stereochemistry.



RN 160333-45-9 CAPLUS

CN Butanediamide, N1-[(1S,2S)-3-[[[3-(acetamido)-4-fluorophenyl]sulfonyl] (2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

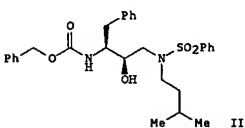
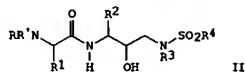
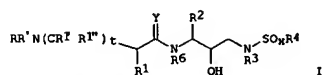
Absolute stereochemistry.



ACCESSION NUMBER: 1994:701324 CAPLUS
DOCUMENT NUMBER: 121:301324
TITLE: Preparation of hydroxyethylamino sulfonamides useful as retroviral protease inhibitors
INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel; Decrescenzo, Gary A.; Freskos, John N.
PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Monsanto Co.
SOURCE: PCT Int. Appl., 198 pp.
CODEN: PIAK02
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9404492	A1	19940303	WO 1993-057814	19930824
V:	AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MV, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN			
RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
EP 656887	A1	19950614	EP 1993-923714	19930824
EP 656887	B1	19981028		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE			
JP 08501288	T2	19960213	JP 1994-506530	19930824
JP 3657002	B2	20050608		
AU 680635	B2	19970807	AU 1994-53474	19930824
AU 9453474	A1	19940315		
EP 810209	A2	19971203	EP 1997-113434	19930824
EP 810209	A3	19981202		
EP 810209	B1	20020605		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE			
AT 172717	E	19981115	AT 1993-923714	19930824
ES 2123065	T3	19990101	ES 1993-923714	19930824
RU 2173680	C2	20010920	RU 1995-106624	19930824
AT 218541	E	20020615	AT 1997-113434	19930824
PT 810209	T	20020930	PT 1997-113434	19930824
ES 2177868	T3	20021216	ES 1997-113434	19930824
US 6060476	A	20000509	US 1994-204827	19940302
US 5968942	A	19991019	US 1994-294468	19940823
NO 9500533	A	19950213	NO 1995-533	19950213
FI 9500650	A	19950214	FI 1995-650	19950214
FI 112471	B1	20031215		
US 6455581	B1	20020924	US 1995-451090	19950525
US 6046190	A	20000404	US 1996-586866	19960124
NO 9803099	A	19950213	NO 1998-3099	19980703
NO 307047	B1	20000131		
US 6248775	B1	20010619	US 1999-288080	19990408
US 6500832	B1	20021231	US 2000-525161	20000314
US 2002052399	A1	20020502	US 2001-798255	20010305
US 6417387	B2	20020709		
FI 2001002317	A	20011127	FI 2001-2317	20011127
US 2003191319	A1	20031009	US 2002-157019	20020530
US 6646010	B2	20031111		
US 2004044047	A1	20040304	US 2002-199481	20020722
US 6846954	B2	20050125		
US 6924286	B1	20050802	US 2003-633376	20030804
US 2004229922	A1	20041118	US 2004-812343	20040330

PRIORITY APPL. INFO.:
US 1992-934984 A2 19920825
EP 1993-923714 A3 19930824
US 1993-110911 A2 19930824
WO 1993-057814 W 19930824
US 1994-204827 A2 19940302
US 1994-204872 B2 19940302
US 1994-294468 A1 19940823
WO 1994-059139 V 19940823
US 1995-451090 A1 19950525
US 1999-288080 A1 19990408
US 2001-798255 A1 20010305
US 2002-157019 A1 20020530
US 2002-199481 A3 20020722

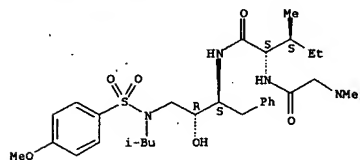
OTHER SOURCE(S): MARPAT 121:301324
GI

AB Title compds. [I and II; R = H, alkoxycarbonyl, aralkoxycarbonyl, alkylcarbonyl, cycloalkylcarbonyl, heterocyclylcarbonyl, heteroaryloxyalkyl, hydroxyalkyl, aryl, alkyl, alkenyl, alkynyl, substituted aminocarbonyl, etc.; R' = H, R3, R' SO2; RR'N = heterocyclyl, heteroaryl; R1 = H, CH2SO2NH2, CH2CO2Me, CO2Me, CONH2, CMe2SH, alkyl, haloalkyl, alkenyl, alkynyl, cycloalkyl, amino acid side chains, etc.; R1', R1'' = H, R3, R1' together with R1 form a cycloalkyl radical; R2 = (substituted) alkyl, aryl, cycloalkyl, cycloalkylalkyl, aralkyl; R3 = H, alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxycarbonyl, cycloalkyl, heterocycloalkyl, heteroaryl, aryl, aralkyl, heteroalkyl, (substituted) aminoalkyl, etc.; R4 = R3, except H; R6 = H, alkyl; x = 0-2; t = 0, 1; Y = O, S, imino], were prepared. Thus, title compound (III, solution phase preparation given) inhibited HIV protease with IC50 =

16 nM:
IT 159005-68-2P 159005-69-3P 159005-70-6P
159005-89-7P 159005-90-0P 159005-91-1P
159005-92-2P 159005-93-3P 159005-94-4P
159005-95-5P 159005-07-2P 159005-21-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of, as HIV protease inhibitor)
RN 159005-68-2 CAPLUS
CN L-Isoleucinamide, N,N-dimethylglycyl-N-[(1S,2R)-2-hydroxy-3-[[[3-methoxyphenyl]sulfonyl] (2-methylpropyl)amino]-1-(phenylmethyl)propyl]- (9CI) (CA INDEX NAME)

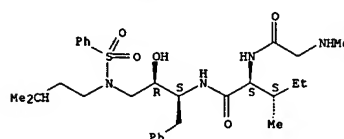
Absolute stereochemistry.



RN 159005-69-3 CAPLUS

CN L-Isoleucinamide, N-methylglycyl-N-[(1S,2R)-2-hydroxy-3-[[[3-methylbutyl] (phenylsulfonyl)amino]-1-(phenylmethyl)propyl]- (9CI) (CA INDEX NAME)

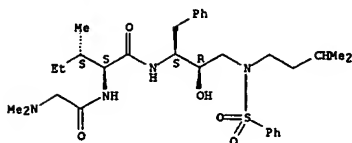
Absolute stereochemistry.



RN 159005-70-6 CAPLUS

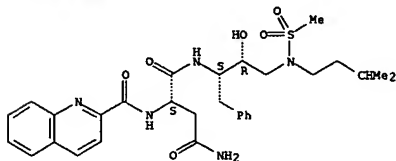
CN L-Isoleucinamide, N,N-dimethylglycyl-N-[(1S,2R)-2-hydroxy-3-[[[3-methylbutyl] (phenylsulfonyl)amino]-1-(phenylmethyl)propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



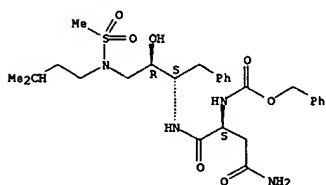
RN 159005-89-7 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(methylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159005-90-0 CAPLUS
CN 2-Thia-3,7,10-triazaundecan-11-oic acid, 9-(2-amino-2-oxoethyl)-5-hydroxy-3-(3-methylbutyl)-8-oxo-6-(phenylmethyl)-, phenylmethyl ester, 2,2-dioxide, (5R,6S,9S)- (9CI) (CA INDEX NAME)

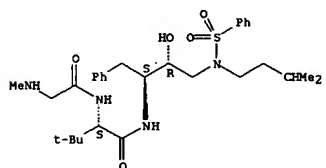
Absolute stereochemistry.



RN 159005-91-1 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

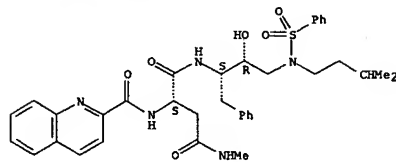
L4 ANSWER 59 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
methylbutyl (phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



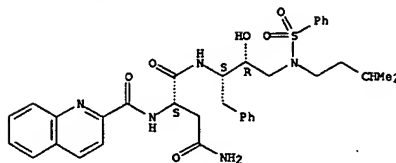
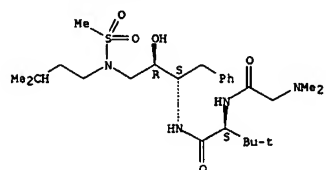
RN 159005-95-5 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-4-methyl-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



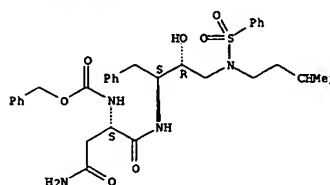
RN 159006-07-2 CAPLUS
CN L-Valinamide, N,N-dimethylglycyl-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(methylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



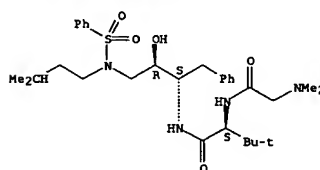
RN 159005-92-2 CAPLUS
CN Carbamic acid, [(1S)-3-amino-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-3-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159005-93-3 CAPLUS
CN L-Valinamide, N,N-dimethylglycyl-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI) (CA INDEX NAME)

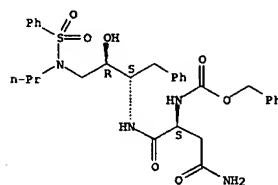
Absolute stereochemistry.



RN 159005-94-4 CAPLUS
CN L-Valinamide, N-methylglycyl-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI) (CA INDEX NAME)

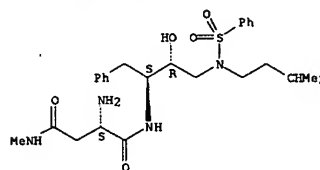
RN 159006-21-0 CAPLUS
CN Carbamic acid, [(1S)-3-amino-1-[[[(1S,2R)-2-hydroxy-1-(phenylmethyl)-3-[[[phenylsulfonyl]propylamino]propyl]amino]carbonyl]-3-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 159006-49-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as HIV protease inhibitor intermediate)
RN 159006-49-2 CAPLUS
CN Butanediamide, 2-amino-N1-[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-N4-methyl-, monohydrochloride, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

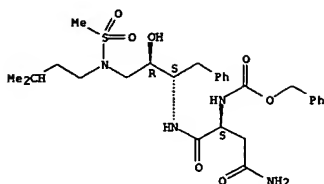
Absolute stereochemistry.



● HCl

IT 159005-90-0P 159005-92-2P 159006-05-0P
159006-06-1P 159006-08-3P 159006-10-7P
159006-12-9P 159006-13-0P 159006-15-2P
159006-16-3P 159006-18-5P 159006-22-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for HIV protease inhibitor)
RN 159005-90-0 CAPLUS
CN 2-Thia-3,7,10-triazaundecan-11-oic acid, 9-(2-amino-2-oxoethyl)-5-hydroxy-3-(3-methylbutyl)-8-oxo-6-(phenylmethyl)-, phenylmethyl ester, 2,2-dioxide, (5R,6S,9S)- (9CI) (CA INDEX NAME)

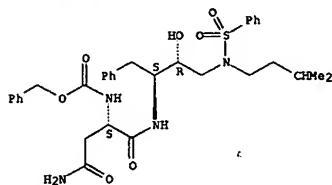
Absolute stereochemistry.



RN 159005-92-2 CAPLUS

CN Carbanic acid, [(1S)-3-amino-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]amino]carbonyl]-3-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

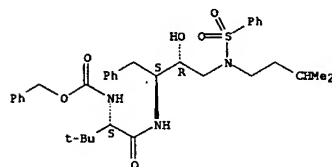
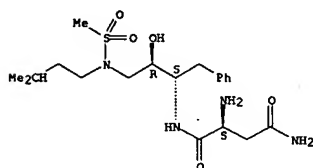
Absolute stereochemistry.



RN 159006-05-0 CAPLUS

CN Butanediol, 2-amino-N-1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]-, (2S)- (9CI) (CA INDEX NAME)

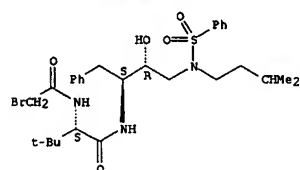
Absolute stereochemistry.



RN 159006-12-9 CAPLUS

CN Butanediol, 2-[(bromooacetyl) amino]-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-, (2S)- (9CI) (CA INDEX NAME)

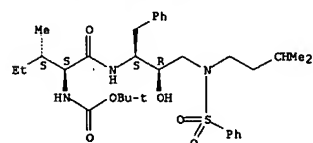
Absolute stereochemistry.



RN 159006-13-0 CAPLUS

CN Carbanic acid, [(1S,2S)-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylbutyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



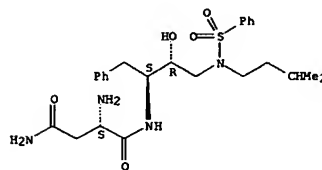
RN 159006-15-2 CAPLUS

CN Pentanediol, 2-[(chloroacetyl) amino]-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]-3-methyl-, (2S,3S)- (9CI) (CA INDEX NAME)

RN 159006-06-1 CAPLUS

CN Butanediol, 2-amino-N-1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]-, (2S)- (9CI) (CA INDEX NAME)

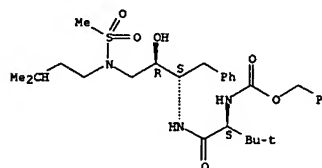
Absolute stereochemistry.



RN 159006-08-3 CAPLUS

CN 2-Thia-3,7,10-triazundecan-11-oic acid, 9-(1,1-dimethylethyl)-5-hydroxy-3-(3-methylbutyl)-8-oxo-6-(phenylmethyl)-, phenylmethyl ester, 2,2-dioxide, (5R,6S,9S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

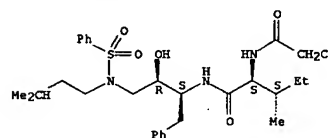


RN 159006-10-7 CAPLUS

CN Carbanic acid, [(1S)-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]amino]carbonyl]-2,2-dimethylpropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

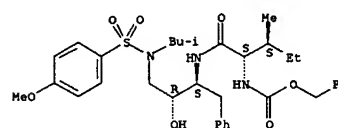
Absolute stereochemistry.



RN 159006-16-3 CAPLUS

CN Carbanic acid, [(1S,2S)-1-[[[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl) sulfonyl] (2-methylpropyl) amino]-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylbutyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

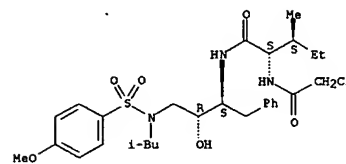
Absolute stereochemistry.



RN 159006-18-5 CAPLUS

CN Pentanediol, 2-[(chloroacetyl) amino]-N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl) sulfonyl] (2-methylpropyl) amino]-1-(phenylmethyl)propyl]-3-methyl-, (2S,3S)- (9CI) (CA INDEX NAME)

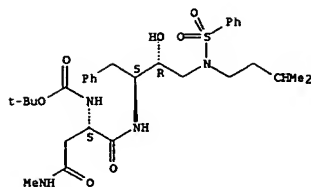
Absolute stereochemistry.



RN 159006-22-1 CAPLUS

CN Carbanic acid, [(1S)-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]amino]carbonyl]-3-(methoxyamino)-3-oxopropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

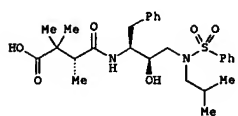
Absolute stereochemistry.



ACCESSION NUMBER: 1994:579258 CAPLUS
 DOCUMENT NUMBER: 121:179258
 TITLE: N-(alkanoylamino-2-hydroxypropyl)sulfonamides useful as HIV protease inhibitors
 INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel; Decrescenzo, Gary A.; Freskos, John N.
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Monsanto Co.
 SOURCE: PCT Int. Appl., 103 pp.
 DOCUMENT TYPE: CODEN: PIXX02
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9404491	A1	19940303	WO 1993-US7815	19930825
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
EP 656886	A1	19950614	EP 1993-920213	19930824
EP 656886	B1	19970625		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 08500824	T2	19960130	JP 1993-506531	19930824
AT 154800	E	19970715	AT 1993-920213	19930824
ES 2103488	T3	19970916	ES 1993-920213	19930824
AU 674702	B2	19970109	AU 1993-50819	19930825
AU 9350819	A1	19940315		
RU 2130016	C1	19990510	RU 1995-106823	19930825
NO 9500670	A	19950222	NO 1995-670	19950222
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PRIORITY APPL. INFO.:			US 1992-935490	A2 19920825
			WO 1993-US7815	W 19930825

OTHER SOURCE(S): MARPAT 121:179258
 GI



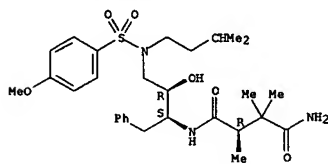
AB The title compds. R33(R34)X1C(:Y1)(CH2)tc(R31)(R32)C(R30)(R1)C(:Y)N(R6)C(R2)HC(OH)HCH2N(R3)S(O)R4 [R1 = H, CH2SO2NH2, CO2Me, CONHMe, CONMe2, etc.; R2 = alkyl, aryl, cycloalkyl, (un)substituted cycloalkylalkyl and arylalkyl; R3 = H, alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl, etc.; R4 = alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl, etc.; R6 = H, alkyl; R30-R32 = R1; R33OR31 = cycloalkyl; R33OR32C = cycloalkyl; R33, R34 = H, R3: R33R34X1

L4 ANSWER 60 OF 64 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
 = cycloalkyl, aryl, heterocyclyl, etc.; X1 = O, N, CR17; R17 = H, alkyl; Y, Y1 = O, S, NR15; R15 = H, R3; t = O, 1; x = 0-2], useful as HIV protease inhibitors for the treatment of AIDS, are prep'd. Thus, sulfonamide I was prep'd. and demonstrated IC50 against HIV protease of 1 nmol.

IT 157446-05-4 157446-06-5 157446-07-6
 157446-08-7 157446-09-8 157474-44-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (HIV protease inhibitor)

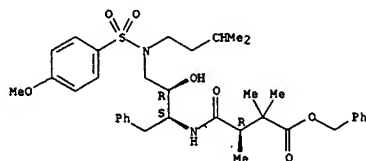
RN 157446-05-4 CAPLUS
 CN Butanediamide, N4-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



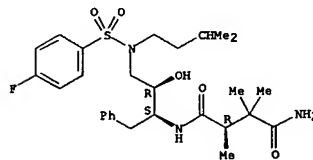
RN 157446-06-5 CAPLUS
 CN Butanoic acid, 4-[[[3-[(4-fluorophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[(1R*(S*),2S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



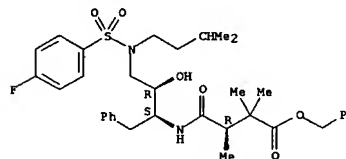
RN 157446-07-6 CAPLUS
 CN Butanediamide, N4-[(1S,2R)-3-[(4-fluorophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



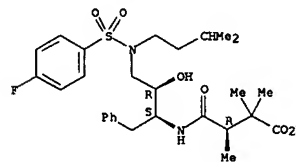
RN 157446-08-7 CAPLUS
 CN Butanoic acid, 4-[[[3-[(4-fluorophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[(1R*(S*),2S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



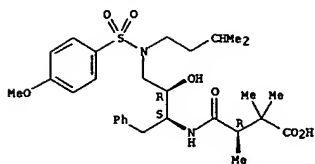
RN 157446-09-8 CAPLUS
 CN Butanoic acid, 4-[[[3-[(4-fluorophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[(1R*(S*),2S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 157474-44-7 CAPLUS
 CN Butanoic acid, 4-[[[2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[(1R*(S*),2S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



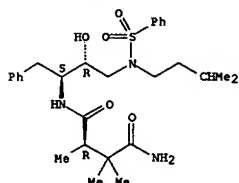
IT 157445-96-0P 157445-97-1P 157445-98-2P
157445-99-3P 157446-00-9P 157446-02-1P
157446-03-2P 157446-04-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as HIV protease inhibitor)

RN 157445-96-0 CAPLUS

CN Butanediolamide, N4-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)- (9CI) (CA INDEX NAME)

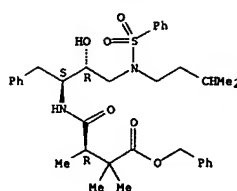
Absolute stereochemistry.



RN 157445-97-1 CAPLUS

CN Butanoic acid, 4-[[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

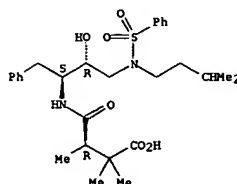
Absolute stereochemistry.



RN 157445-98-2 CAPLUS

CN Butanoic acid, 4-[[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, (3R)- (9CI) (CA INDEX NAME)

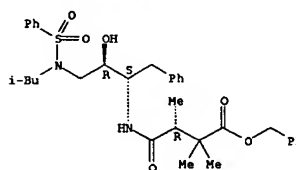
Absolute stereochemistry.



RN 157445-99-3 CAPLUS

CN Butanoic acid, 4-[[2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

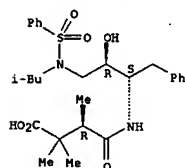
Absolute stereochemistry.



RN 157446-00-9 CAPLUS

CN Butanoic acid, 4-[[2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

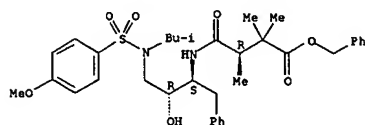
Absolute stereochemistry.



RN 157446-02-1 CAPLUS

CN Butanoic acid, 4-[[2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

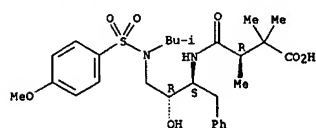
Absolute stereochemistry.



RN 157446-03-2 CAPLUS

CN Butanoic acid, 4-[[2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

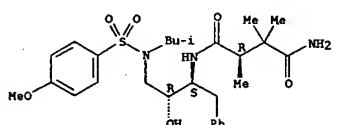
Absolute stereochemistry.



RN 157446-04-3 CAPLUS

CN Butanediolamide, N4-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 61 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1992:49265 CAPLUS
 DOCUMENT NUMBER: 117:49265
 TITLE: Preparation of dipeptide renin inhibitors
 INVENTOR(S): Toyoda, Tatsuo; Fujioka, Toshihiro; Hayashi, Kunio;
 Nakamura, Masuhisa; Hashimoto, Naofumi;
 Shionogi and Co., Ltd., Japan
 PATENT ASSIGNER(S): Eur. Pat. Appl., 117 pp.
 SOURCE: CODEN: EPXOXV
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 468641	A2	19920129	EP 1991-305763	19910626
EP 468641	A3	19930113		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 2045008	AA	19911229	CA 1991-2045008	19910619
US 5194608	A	19930316	US 1991-719492	19910624
AU 9179304	A1	19920102	AU 1991-79304	19910626
AU 643036	B2	19931104		
HU 58346	A2	19920228	HU 1991-2166	19910627
JP 05009162	A2	19930119	JP 1991-156764	19910627
JP 2997095	B2	20000111		
US 5223615	A	19930629	US 1992-974212	19921110
US 5272268	A	19931221	US 1992-974211	19921110
AU 9344890	A1	19931125	AU 1993-44890	19930826
AU 653682	B2	19941006		
PRIORITY APPLN. INFO.:			JP 1990-172050	A 19900628
OTHER SOURCE(S):		MARPAT 117:49265	US 1991-719492	A3 19910624
G1				

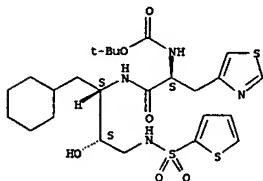
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. [I: R1 = (substituted) (cyclo)alkyl, alkenyl, alkynyl, heterocyclyl; R2 = (substituted) carbamoyl, aryl, heterocyclyl, alkyl, alkylthiomethyl, alkylthio; R3 = (substituted) aryl, 5- to 6-membered heterocyclyl; R4 = R5SO2, R5CO; R5 = (substituted) aryl, (cyclo)alkyl, alkenyl, alkynyl, heterocyclyl; X = CH2, NH, O, S; Y = CO, NHSO2], were prepared. Thus, N-(tert-butoxycarbonyl)cyclohexylalanine was condensed with 4-acetylpyridine using NaN(SiMe3)2 and 15-crown-5 in THF to give a mixture of aldol condensation epimers, which was treated with H2C: C(Me)OMe and p-MeC6H4SO3H to give oxazolidine II (BOC = Me3CO2C). This was successively reduced with NaBH4, deprotected with HCl or CF3CO2H, coupled with BOC-His(Tos)-OH (Tos = tosyl), and oxidized with MnO2 to give intermediate III. III was N-deprotected with CF3CO2H, acylated with 3-tert-butylsulfonyl-2S-phenylpropionic acid, and N'-deprotected with pyridinium hydrochloride to give title compound IV. I at 15 mg/kg orally in monkeys pretreated with furosemide gave 33-99% inhibition of renin. Several I at 1-100 mg/kg orally or i.v. effectively reduced blood pressure in monkeys.

IT 141597-65-1P 141597-66-2P 141597-67-3P
 141597-68-4P 141597-69-5P 141597-70-8P
 141597-71-9P 141597-72-0P 141597-73-1P
 141597-74-2P 141597-75-3P 141597-76-4P

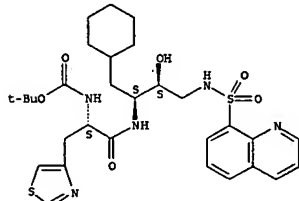
L4 ANSWER 61 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 thienylsulfonyl amino]propyl]amino]-2-oxo-1-(4-thiazolylmethyl)ethyl]-, 1,1-dimethylethyl ester, [15-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 141597-69-5 CAPLUS
 CN Carbamic acid, [2-[[1-(cyclohexylmethyl)-2-hydroxy-3-[(8-quinolinylsulfonyl)amino]propyl]amino]-2-oxo-1-(4-thiazolylmethyl)ethyl]-, 1,1-dimethylethyl ester, [15-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

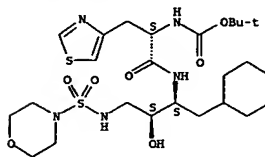


RN 141597-70-8 CAPLUS
 CN Carbamic acid, [2-[[1-(cyclohexylmethyl)-2-hydroxy-3-[(phenylsulfonyl)amino]propyl]amino]-2-oxo-1-(4-thiazolylmethyl)ethyl]-, 1,1-dimethylethyl ester, [15-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

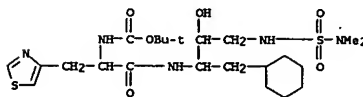
Absolute stereochemistry.

L4 ANSWER 61 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as intermediate for peptide renin inhibitor)
 RN 141597-65-1 CAPLUS
 CN Carbamic acid, [2-[[1-(cyclohexylmethyl)-2-hydroxy-3-[(4-morpholinylsulfonyl)amino]propyl]amino]-2-oxo-1-(4-thiazolylmethyl)ethyl]-, 1,1-dimethylethyl ester, [15-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

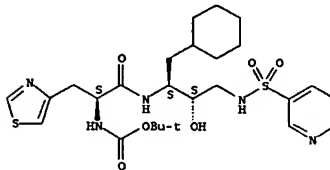


RN 141597-66-2 CAPLUS
 CN 3-Thia-2,4,8,11-tetraazadodecan-12-ic acid, 7-(cyclohexylmethyl)-6-hydroxy-2-methyl-9-oxo-10-(4-thiazolylmethyl)-, 1,1-dimethylethyl ester, 3,3-dioxide, [6S-(6R*,7R*,10R*)]- (9CI) (CA INDEX NAME)



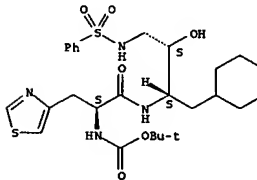
RN 141597-67-3 CAPLUS
 CN Carbamic acid, [2-[[1-(cyclohexylmethyl)-2-hydroxy-3-[(3-pyridinylsulfonyl)amino]propyl]amino]-2-oxo-1-(4-thiazolylmethyl)ethyl]-, 1,1-dimethylethyl ester, [15-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



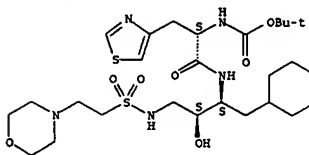
RN 141597-68-4 CAPLUS
 CN Carbamic acid, [2-[[1-(cyclohexylmethyl)-2-hydroxy-3-[(2-

L4 ANSWER 61 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



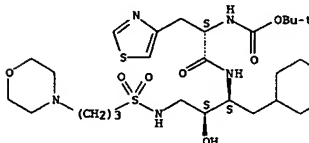
RN 141597-71-9 CAPLUS
 CN 10-Thia-2,5,9-triazadodecanoic acid, 6-(cyclohexylmethyl)-7-hydroxy-12-(4-morpholinyl)-4-oxo-3-(4-thiazolylmethyl)-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

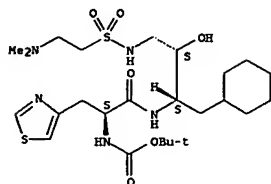


RN 141597-72-0 CAPLUS
 CN 10-Thia-2,5,9-triazadodecanoic acid, 6-(cyclohexylmethyl)-7-hydroxy-13-(4-morpholinyl)-4-oxo-3-(4-thiazolylmethyl)-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

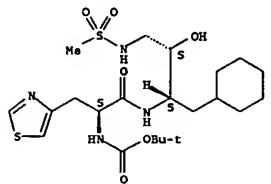


RN 141597-73-1 CAPLUS
 CN 10-Thia-2,5,9,13-tetraazatetradecanoic acid, 6-(cyclohexylmethyl)-7-hydroxy-13-methyl-4-oxo-3-(4-thiazolylmethyl)-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7R*)]- (9CI) (CA INDEX NAME)



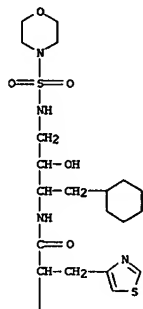
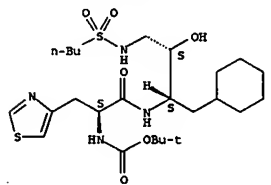
RN 141597-74-2 CAPLUS
CN 10-Thia-2,5,9-triazatetradecanoic acid, 6-(cyclohexylmethyl)-7-hydroxy-4-oxo-3-(4-thiazolylmethyl)-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

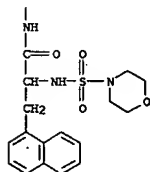


RN 141597-75-3 CAPLUS
CN 10-Thia-2,5,9-triazatetradecanoic acid, 6-(cyclohexylmethyl)-7-hydroxy-4-oxo-3-(4-thiazolylmethyl)-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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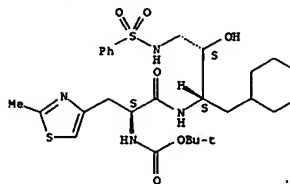


PAGE 2-A

RN 141596-70-5 CAPLUS
CN L-Alaninamide, N-(4-morpholinylsulfonyl)-L-phenylalanyl-N-[1-(cyclohexylmethyl)-3-[(dimethylamino)sulfonyl]amino]-2-hydroxypropyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

RN 141597-76-4 CAPLUS
CN Carbamic acid, [2-[[1-(cyclohexylmethyl)-2-hydroxy-3-[[phenylsulfonyl]amino]propyl]amino]-1-[(2-methyl-4-thiazolyl)methyl]-2-oxoethyl]-, 1,1-dimethylethyl ester, [1S-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

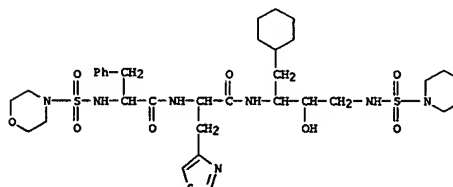
Absolute stereochemistry.



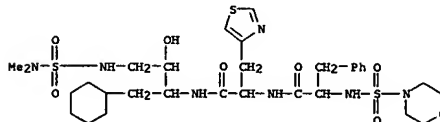
IT 141596-68-1P 141596-69-2P 141596-70-5P
141596-71-6P 141596-72-7P 141596-73-8P
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141596-77-2P 141596-78-3P 141596-79-4P
141596-80-7P 141596-81-8P 141596-82-9P
141596-83-0P 141596-84-1P 141625-04-9P
142003-00-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as renin inhibitor)

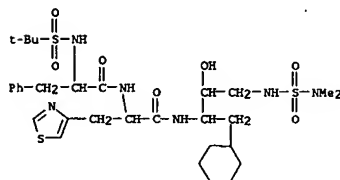
RN 141596-68-1 CAPLUS
CN L-Alaninamide, N-(4-morpholinylsulfonyl)-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(4-morpholinylsulfonyl)amino]propyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)



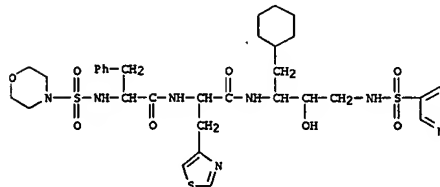
RN 141596-69-2 CAPLUS
CN L-Alaninamide, N-(4-morpholinylsulfonyl)-3-(1-naphthalenyl)-L-alanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(4-morpholinylsulfonyl)amino]propyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)



RN 141596-71-6 CAPLUS
CN L-Alaninamide, N-[[1-(1,1-dimethylethyl)sulfonyl]-L-phenylalanyl-N-[1-(cyclohexylmethyl)-3-[[dimethylamino)sulfonyl]amino]-2-hydroxypropyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

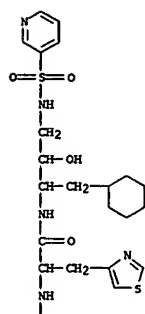


RN 141596-72-7 CAPLUS
CN L-Alaninamide, N-(4-morpholinylsulfonyl)-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(3-pyridinylsulfonyl)amino]propyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

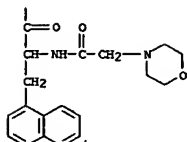


RN 141596-73-8 CAPLUS
CN L-Alaninamide, N-(4-morpholinylsulfonyl)-3-(1-naphthalenyl)-L-alanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(3-pyridinylsulfonyl)amino]propyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

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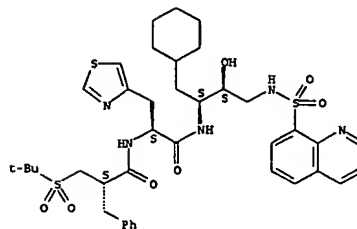


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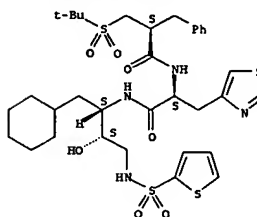
RN 141596-74-9 CAPLUS
 CN 4-Thiazolepropanamide, N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(8-quinolylsulfonyl)amino]propyl]-a-[[2-[[[(1,1-dimethylethyl)sulfonyl]methyl]-1-oxo-3-phenylpropyl]amino]-, [15-[1R*(R*),2R*]]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



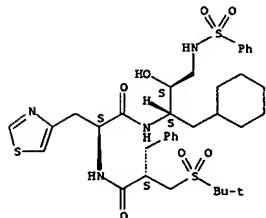
RN 141596-75-0 CAPLUS
 CN 4-Thiazolepropanamide, N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(2-thienylsulfonyl)amino]propyl]-a-[[2-[[[(1,1-dimethylethyl)sulfonyl]methyl]-1-oxo-3-phenylpropyl]amino]-, [15-[1R*(R*),2R*]]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



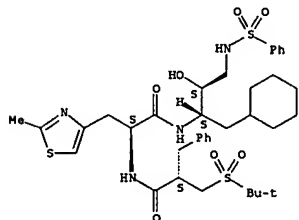
RN 141596-76-1 CAPLUS
 CN 4-Thiazolepropanamide, N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(phenylsulfonyl)amino]propyl]-a-[[2-[[[(1,1-dimethylethyl)sulfonyl]methyl]-1-oxo-3-phenylpropyl]amino]-, [15-[1R*(R*),2R*]]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



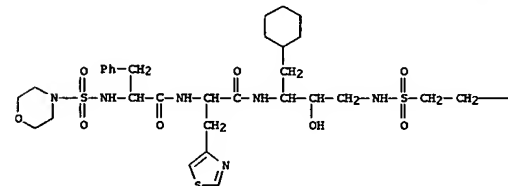
RN 141596-77-2 CAPLUS
 CN 4-Thiazolepropanamide, N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(phenylsulfonyl)amino]propyl]-a-[[2-[[[(1,1-dimethylethyl)sulfonyl]methyl]-1-oxo-3-phenylpropyl]amino]-2-methyl-, [15-[1R*(R*),2R*]]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 141596-78-3 CAPLUS
 CN L-Alaninamide, N-(4-morpholinylsulfonyl)-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[2-(4-morpholinylethyl)sulfonyl]amino]propyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

PAGE 1-A

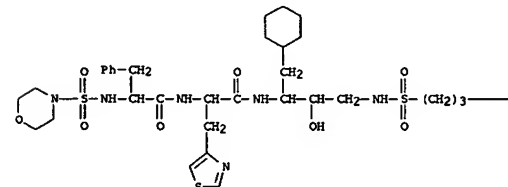


PAGE 1-B



RN 141596-79-4 CAPLUS
 CN L-Alaninamide, N-(4-morpholinylsulfonyl)-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[3-(4-morpholinyl)propyl]sulfonyl]amino]propyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

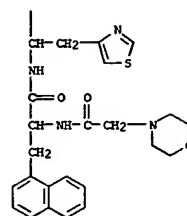
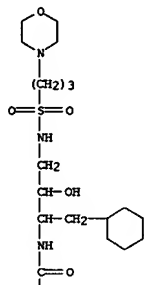
PAGE 1-A





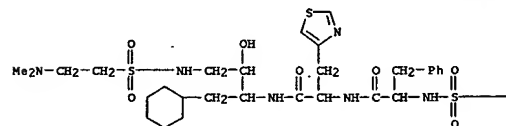
RN 141596-80-7 CAPLUS
 CN L-Alaninamide, N-(4-morpholinylacetyl)-3-(1-naphthalenyl)-L-alanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[[3-(4-morpholinyl)propyl]sulfonyl]amino]propyl]-3-(4-thiazolyl)-, [-S-(R*,R*)]- (9CI) (CA INDEX NAME)

PAGE 1-A



RN 141596-81-8 CAPLUS
CN L-Alaninamide, N-(4-morpholinylsulfonyl)-L-phenylalanyl-N-[1-(cyclohexylmethyl)-3-[[[2-(dimethylamino)ethyl]sulfonyl]amino]-2-hydroxypropyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

PAGE 1-A

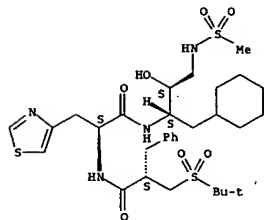


PAGE 1-B



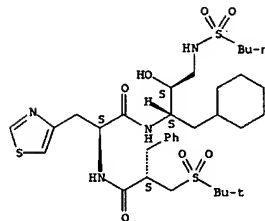
RN 141596-82-9 CAPLUS
 CN 4-Thiazolepropanamide, N-[1-(cyclohexylmethyl)-2-hydroxy-3-
 [(methylsulfonyl)amino]propyl]-α-[[2-[[1,1-
 dimethylethyl]sulfonyl]methyl]-1-oxo-3-phenylpropyl]amino]-,
 [1S-[1R*(R*(R*)),2R*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



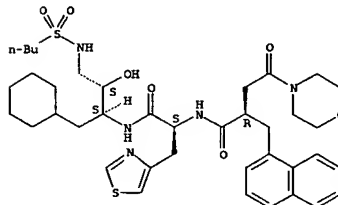
RN 141596-83-0 CAPLUS
 CN 4-Thiazolepropanamide, N-[3-[(butylsulfonyl)amino]-1-(cyclohexylmethyl)-2-hydroxypropyl]-a-[[2-[[[(1,1-dimethylethyl)sulfonyl]methyl]-1-oxo-3-phenylpropyl]amino]-, [1S-[(1R*(R*),2R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 141596-84-1 CAPLUS
CN 4-Morpholinebutanamide, N-[2-[[3-[(butylsulfonyl)amino]-1-(cyclohexylmethyl)-2-hydroxypropyl]amino]-2-oxo-1-(4-thiazolylmethyl)ethyl]- α -(1-naphthalenylmethyl)- γ -oxo-, [1S-[1R*[R*(S*)],2R]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

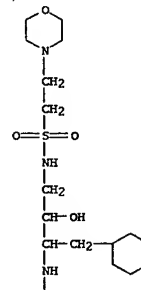


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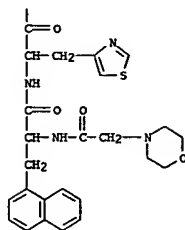
RN  141625-04-9  CAPLUS
CN  L-Alaninamide, N-(4-morpholinylacetyl)-3-(1-naphthalenyl)-L-alanyl-N-[1-
    (cyclohexylmethyl)-2-hydroxy-3-[[{2-(4-morpholinyl)ethyl]sulfonyl]amino]pr
    opyl]-3-(4-thiazolyl)-, [5-(R*,R*)]- (9CI)  (CA INDEX NAME)

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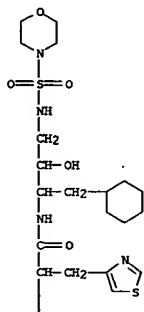


PAGE 2-A



RN 142003-00-7 CAPLUS
CN L-Alaninamide, N-(4-morpholinylacetyl)-3-(1-naphthalenyl)-L-alanyl-N-[[1-(cyclohexylmethyl)-2-hydroxy-3-[[4-(4-morpholinylsulfonyl)amino]propyl]-3-(4-thiazolyl)-, [5-(R*,R*)]]- (9CI) (CA INDEX NAME)

PAGE 1-A



L4 ANSWER 62 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:193405 CAPLUS
DOCUMENT NUMBER: 110:193405
TITLE: Preparation of amino acid amidoalkylamides and pharmaceuticals containing them for the treatment of hypertension and hyperaldosteronism
INVENTOR(S): Raddatz, Peter; Schmitges, Claus J.; Minck, Klaus Otto
PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Fed. Rep. Ger.
SOURCE: Ger. Offen., 17 pp.
CODEN: GWXXIX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3635907	A1	19880428	DE 1986-3635907	19861022
EP 264795	A2	19880427	EP 1987-114975	19871013
EP 264795	A3	19900328		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
AU 8779823	A1	19880428	AU 1987-79823	19871015
HU 47596	A2	19890328	HU 1987-4728	19871021
HU 199875	B	19900328		
JP 63112548	A2	19880517	JP 1987-265548	19871022
ZA 8707950	A	19880629	ZA 1987-7950	19871022
PRIORITY APPL. INFO.: DE 1986-3635907			A	19861022

PATENT SOURCE(S): CASREACT 110:193405; MARPAT 110:193405
AB Pharmaceuticals contain hydroxy amino acid derivs.
X2NR2CH3CHOH(CH2)nNR4EY [1; X = H, R1OCmH2mCO, R1CmH2mCO, R1SO2, etc.; Z = 1-4 amino acid residues; E = CONH, CSNH, CO2, SO2, etc.; Y = R5, CO2R6, CONR7R8, etc.; EY = pyrrolidinocarbonyl, piperidinocarbonyl, morpholinocarbonyl, pyrrolidinocarbonyl, etc.; R1, R3, R6, R7, R8 = H, alkyl, aryl, arylalkyl, heterocyclyl, heterocyclylalkyl, cycloalkyl, bicycloalkyl, etc.; R2, R4 = H, alkyl; R5 = H, alkyl, aryl, arylalkyl, cycloalkyl, cycloalkylalkyl; m = 0-5; n = 1, 2. I are used for the treatment of renin-dependent hypertension and hyperaldosteronism (no data). 1-Bromo-3S-BOC-amino-4-cyclohexylbutan-2-one was treated with NaN3 in DMF at 0° to give 1-azido-3S-BOC-amino-4-cyclohexylbutan-2-one; the latter was reduced with NaBH4 and the resulting epimers were resolved by chromatog. to give 1-azido-3S-BOC-amino-4-cyclohexylbutan-2S-ol and this was hydrogenated to give 1-amino-3S-BOC-amino-4-cyclohexylbutan-2S-ol. The latter was treated with isopentyl isocyanate, the BOC group was removed with 4N HCl in dioxane, the product was treated with BOC-(imi-DNP-His)OH to give N-isopentyl-N'-[2S-hydroxy-3S-(BOC-(imi-DNP-His)amino)-4-cyclohexylbutyl]urea. This was deprotected and solvolized to give N-isopentyl-N'-[2S-hydroxy-3S-(BOC-Phe-His)amino-4-cyclohexylbutyl]urea (I). A solution containing 100 g I and 5 g Na2HPO4 in

3 L H2O at pH 6.5 was filled into ampules containing 500 mg I each.

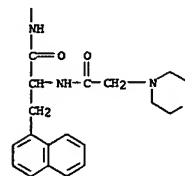
IT 120195-54-2P 120195-83-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and partial deprotection of)

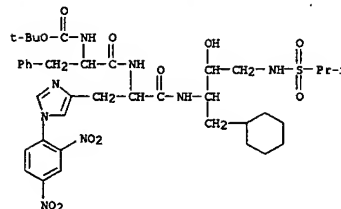
RN 120195-54-2 CAPLUS

CN L-Histidinamide, N-[[1,1-dimethylethoxy]carbonyl]-L-phenylalanyl-N-[[1-(cyclohexylmethyl)-2-hydroxy-3-[[1-methylethyl]sulfonyl]amino]propyl]-1-(2,4-dinitrophenyl)-, [5-(R*,R*)]]- (9CI) (CA INDEX NAME)

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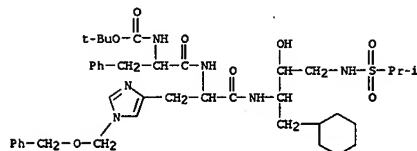


L4 ANSWER 62 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 120195-83-7 CAPLUS

CN L-Histidinamide, N-[[1,1-dimethylethoxy]carbonyl]-L-phenylalanyl-N-[[1-(cyclohexylmethyl)-2-hydroxy-3-[[1-methylethyl]sulfonyl]amino]propyl]-1-[[phenylmethoxy]methyl]-, [5-(R*,R*)]]- (9CI) (CA INDEX NAME)



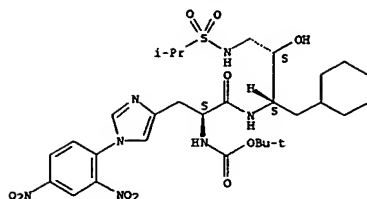
IT 120195-53-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for amino acid (amidoalkyl)amide antihypertensives)

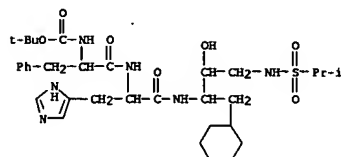
RN 120195-53-1 CAPLUS

CN 10-Thia-2,5,9-triazadodecanoic acid, 6-(cyclohexylmethyl)-3-[[1-(2,4-dinitrophenyl)-1H-imidazol-4-yl]methyl]-7-hydroxy-11-methyl-4-oxo-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7R*)]]- (9CI) (CA INDEX NAME)

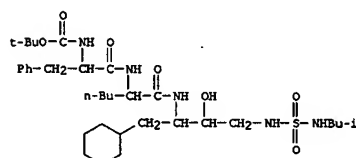
Absolute stereochemistry.



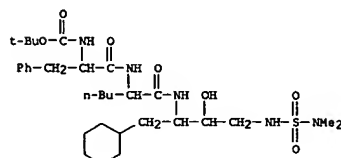
IT 120195-52-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, for treatment of hypertension and hyperaldosteronism)
 RN 120195-52-0 CAPLUS
 CN L-Histidinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[[(1-methylethyl)sulfonyl]amino]propyl]-, [S-(R*,R*)]]- (9CI) (CA INDEX NAME)



L4 ANSWER 63 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 MeSO₂NMe₂ in 50 mL THF was mixed at 0-5° with 20 mL 1.0M BuLi in hexane. After 0.5 h, 3.7 g N-tert-butoxycarbonylcyclohexylalaninal was added at once and was allowed to react 0.5 h to give (2R,3S)-3-N-(tert-butoxycarbonylamino)-4-cyclohexyl-2-hydroxy-N,N-dimethyl-1-butanedisulfonamide as the main product and the (2R,3R)-isomer as a byproduct.
 IT 118546-36-4P 118551-01-2P 118551-04-5P
 118627-62-6P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation of, as renin inhibitor)
 RN 118546-36-4 CAPLUS
 CN L-Norleucinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[[(2-methylpropyl)amino]sulfonyl]amino]propyl]-, [R-(R*,S*)]]- (9CI) (CA INDEX NAME)



RN 118551-01-2 CAPLUS
 CN L-Norleucinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[[(dimethylamino)sulfonyl]amino]-2-hydroxypropyl]-, [S-(R*,R*)]]- (9CI) (CA INDEX NAME)



RN 118551-04-5 CAPLUS
 CN Cyclohexanepropanamide, N-[1-[[[1-(cyclohexylmethyl)-3-[[[(dimethylamino)sulfonyl]amino]-2-hydroxypropyl]amino]carbonyl]pentyl]-, [1S-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

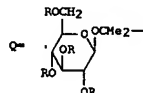
Absolute stereochemistry.

L4 ANSWER 63 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1989:173760 CAPLUS
 DOCUMENT NUMBER: 110:173760
 TITLE: Preparation of renin-inhibiting peptides
 INVENTOR(S): Hagenbach, Alexander; Metternich, Rainer; Pfenniger, Emil; Weidmann, Beat
 PATENT ASSIGNER(S): Sandoz A.-G., Switz.
 SOURCE: Brit. UK Pat. Appl., 88 pp.
 CODEN: BAQXDU
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2200115	A1	19880727	GB 1988-1040	19880118
GB 2200115	B2	19901114		
NL 8800100	A	19880816	NL 1988-100	19880118
CH 676988	A	19910328	CH 1988-157	19880118
DK 8802225	A	19880722	DK 1988-225	19880119
FR 2669716	A1	19880722	FR 1988-636	19880119
AU 6810375	A1	19880901	AU 1988-10375	19880119
SE 1002212	A5	19901016	SE 1988-67	19880119
SE 8800169	A	19880722	SE 1988-169	19880120
JP 01019053	A2	19890123	JP 1988-10571	19880120
ZA 8800415	A	19890927	ZA 1988-415	19880121

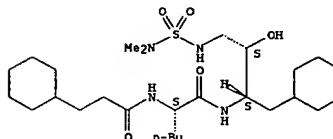
PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 110:173760
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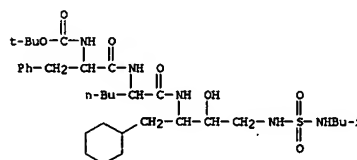


AB The title peptides A-B-C-NR1CHR2CHR3CH2-D-Y-NR4R5 [I: A = R6CO, R7CONHC(CR8R9)CO; R6 = (un)branched, (un)substituted C1-10 alkyl, C3-7 cycloalkyl, C3-10 cycloalkyl(C1-5 alkyl), C6-10 aryl, 5- or 6-membered heteroaryl(C1-5 alkyl) containing 1 or 2 N, O, or S, or 1 N and 1 O and/or 5 in the heteroaryl moiety, (un)branched C1-5 alkoxy, C6-10 aryl-C1-5 alkoxy, G, R100(CH2CH2O)n(CH2)m; R = H, Ac; R10 = (un)branched C1-5 alkyl; n = 1-20; m = 1-5; R7 = (un)branched C1-5 alkyl, C6-10 aryl; R8, R9 = H, R; R1 = H, (un)branched C1-5 alkyl; B, C = bond, NR1CHR1CO, excluding B = C = bond; R11 = hydrophilic or lipophilic amino acid side chains; D = O, NR1, CHR1; R2 = (un)branched C1-10 alkyl, (un)substituted C3-10 cycloalkyl(C1-5 alkyl), heteroaryl(C1-5 alkyl) defined as above, R15S(O)s(CH2)p; R15 = H, C1-4 alkyl, CH2Ph; s = 0, 1; p = 1, 2; R3 = H, OH, NH2, O2CR2; R4, R5 = H, (un)branched C1-5 alkyl, C6-10 aryl(C1-5 alkyl), heteroaryl(C1-5 alkyl) defined as above, CHR12COR13; R12 = (un)branched C1-5 (hydroxy)alkyl; R13 = OH, NH2 (un)branched C1-5 alkoxy, (un)branched C1-5 alkylamino, CH2Ph, NR4R5, 1-pyrrolidinyl, 1-piperidinyl, morpholino, (N-substituted)-1-piperazinyl, etc.; Y = SO2, CO, PNR4R5, useful as renin inhibitors (no data), were prepared A solution of 4 g

L4 ANSWER 63 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



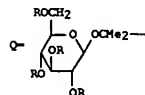
RN 118627-62-6 CAPLUS
 CN L-Norleucinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[[(2-methylpropyl)amino]sulfonyl]amino]propyl]-, [S-(R*,R*)]]- (9CI) (CA INDEX NAME)



L4 ANSWER 64 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1989:135732 CAPLUS
 DOCUMENT NUMBER: 110:135732
 TITLE: Preparation and testing of peptide amides as renin inhibitors
 INVENTOR(S): Hagenbach, Alexander; Metternich, Rainer; Pfenniger, Emil; Weidmann, Beat
 PATENT ASSIGNEE(S): Sandoz Patent-G.m.b.H., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 26 pp.
 CODEN: GWXKX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

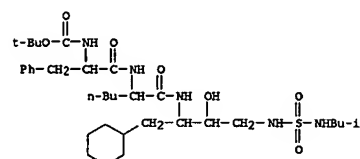
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3800591	A1	19880804	DE 1988-3800591	19880112
NL 8800100	A	19880816	NL 1988-100	19880118
CH 676988	A	19910328	CH 1988-157	19880118
DK 8800225	A	19880722	DK 1988-225	19880119
FR 2609716	A1	19880722	FR 1988-636	19880119
AU 8810375	A1	19880901	AU 1988-10375	19880119
BE 1002212	A5	19901016	BE 1988-67	19880119
SE 8800169	A	19880722	SE 1988-169	19880120
JP 01019053	A2	19890123	JP 1988-10571	19880120
ZA 8800415	A	19890927	ZA 1988-415	19880121

PRIORITY APPLN. INFO.:
 OTHER SOURCE(S): CASREACT 110:135732; MARPAT 110:135732
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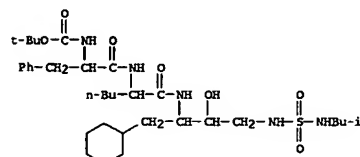


AB A-B-C-NR1CHR2CHR3CH2OYNR4R5 [I; A = R6CO, R7CONHC(CR8R9)CO, sugar moiety
 Q; B, C = bond, NR1CHR10CO; D = bond, O, NR1, CHR1; Y = SO2, CO,
 P(O)NR4R5; R = H, Ac; R1 = H, C1-5 alkyl; R2 = C1-10 alkyl, (substituted)
 cycloalkylalkyl, aralkyl, heteroarylalkyl, etc.; R3 = H, OH, amino,
 alkoxy, carbonyl, etc.; R4, R5 = H, C1-5 alkyl, aralkyl, heteroarylalkyl,
 etc.; R4R5N = morpholino, piperazino, piperidino, pyrrolidino; R6 =
 (substituted) C1-10 alkyl, cycloalkyl, cycloalkylalkyl, aryl, heteroaryl,
 etc.; R7 = C1-5 alkyl, C6-10 aryl, R8, R9 = H, R7; R10 = hydrophilic or
 lipophilic amino acid side chain), useful as cardiovascular agents, were
 prepared MeSO2NMe2 in THF at 0-5° was treated with BuLi and after
 0.5 h BOC-cyclohexylalaninal (BOC = Me3CO2C) was added. The mixture was
 stirred 0.5 h to give (2R,3S)-3-(BOC-amino)-N,N-dimethyl-4-cyclohexyl-
 2-hydroxy-1-butanedisulfonamide. I inhibit human plasma renin with IC50 of
 10-5 to 10-11 M.
 IT 118546-36-4P 118551-01-2P 118551-04-5P
 118627-62-6P
 RI: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); BIOL (Biological

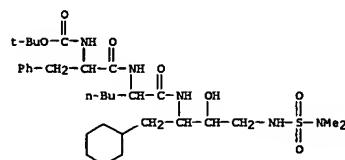
L4 ANSWER 64 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 CN L-Norleucinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-
 (cyclohexylmethyl)-2-hydroxy-3-[[[(2-methylpropyl)amino]sulfonyl]amino]pro-
 pyl]-, [5-(R*,R*)]- (9CI) (CA INDEX NAME)



L4 ANSWER 64 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 study); PREP (Preparation)
 (prepn. of, as renin inhibitor)
 RN 118546-36-4 CAPLUS
 CN L-Norleucinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-
 (cyclohexylmethyl)-2-hydroxy-3-[[[(2-methylpropyl)amino]sulfonyl]amino]pro-
 pyl]-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

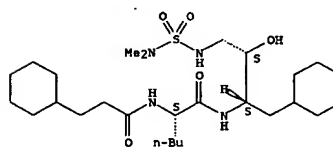


RN 118551-01-2 CAPLUS
 CN L-Norleucinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-
 (cyclohexylmethyl)-2-hydroxy-3-[[[(dimethylamino)sulfonyl]amino]-2-hydroxypropyl]-,
 [5-(R*,R*)]- (9CI) (CA INDEX NAME)



RN 118551-04-5 CAPLUS
 CN Cyclohexanepropanamide, N-[1-[[[1-(cyclohexylmethyl)-3-
 [[[(dimethylamino)sulfonyl]amino]-2-hydroxypropyl]amino]carbonyl]pentyl]-,
 [1S-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 118627-62-6 CAPLUS

=> log y
COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE	TOTAL
ENTRY	SESSION
51.20	212.74

SINCE FILE	TOTAL
ENTRY	SESSION
-7.30	-7.30

STN INTERNATIONAL LOGOFF AT 15:12:48 ON 12 AUG 2005

8/12/05 10/784916
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 14:09:29 ON 12 AUG 2005

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 14:09:38 ON 12 AUG 2005

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STRUCTURE FILE UPDATES: 11 AUG 2005 HIGHEST RN 859751-76-1

DICTIONARY FILE UPDATES: 11 AUG 2005 HIGHEST RN 859751-76-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

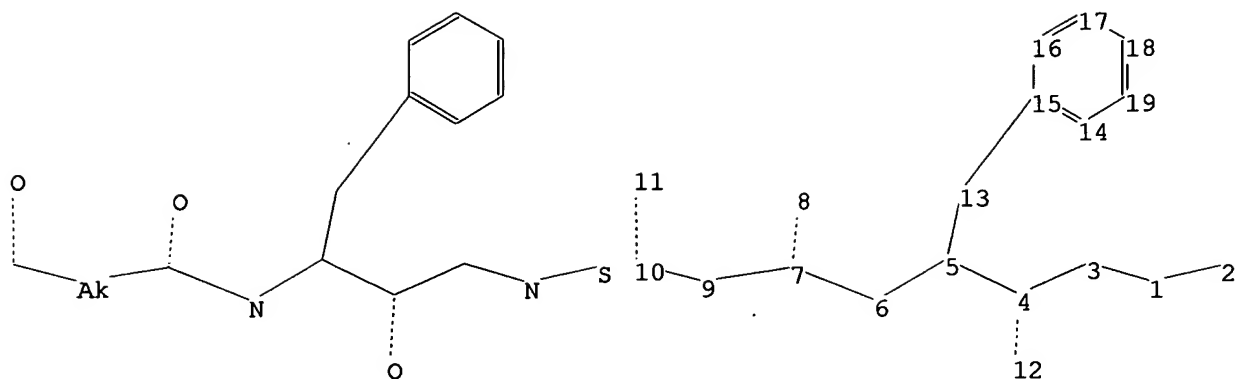
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10784916\10784916f.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13

ring nodes :

14 15 16 17 18 19

chain bonds :

1-2 1-3 3-4 4-5 4-12 5-6 5-13 6-7 7-8 7-9 9-10 10-11 13-15

ring bonds :

14-15 14-19 15-16 16-17 17-18 18-19

exact/norm bonds :

1-2 1-3 4-12 5-6 6-7 7-8 7-9 9-10 10-11

exact bonds :

3-4 4-5 5-13 13-15

normalized bonds :

14-15 14-19 15-16 16-17 17-18 18-19

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom

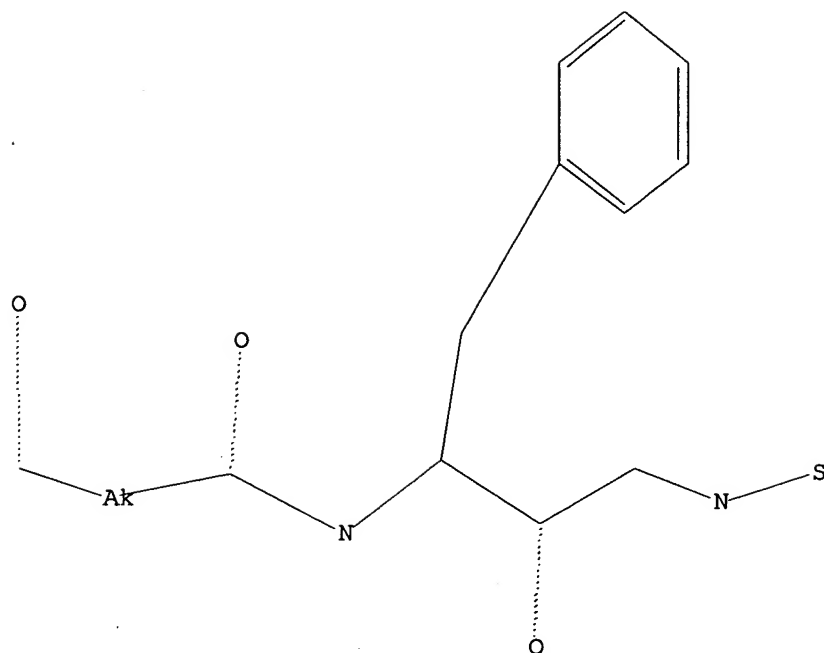
19:Atom

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s L1

SAMPLE SEARCH INITIATED 14:09:53 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 230 TO ITERATE

100.0% PROCESSED 230 ITERATIONS 5 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 3691 TO 5509
 PROJECTED ANSWERS: 5 TO 234

L2 5 SEA SSS SAM L1

=> s L1 full

FULL SEARCH INITIATED 14:09:57 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 4985 TO ITERATE

100.0% PROCESSED 4985 ITERATIONS 105 ANSWERS
 SEARCH TIME: 00.00.01

L3 105 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
161.33	161.54

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 14:10:01 ON 12 AUG 2005
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FILE COVERS 1907 - 12 Aug 2005 VOL 143 ISS 8
FILE LAST UPDATED: 11 Aug 2005 (20050811/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s L3

L4 24 L3

=> d ibib abs 1-24

L4 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:527407 CAPLUS
DOCUMENT NUMBER: 143:59982
TITLE: Preparation of HIV protease inhibitors, in particular imidazolidine derivatives
INVENTOR(S): Plentge, Charles A.; Chen, Hui-Jui; Degoe, David A.; Floss, William J.; Grampovnik, David J.; Huang, Peggy P.; Kempf, Dale J.; Klein, Larry L.; Krueger, Allan C.; Madigan, Darold L.; Pandolph, John T.; Sun, Minghua; Yeung, Ming C.; Zhao, Chen
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 287 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005131042	A1	20050616	US 2003-733915	20031211
WO 2005061450	A2	20050707	WO 2004-US37745	20041110
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRIORITY APPL. INFO.:			US 2003-733915	A 20031211
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. of formula ANH(CHR)(CHR1)(CHR2)NR3S(O2)R4 (I) (wherein A = alkylcarbonyl, arylsulfonyl, 1,3-substituted 2-oxoimidazolidinyl, 2,4-dioximidazolidinyl, etc.; X, Y = independently O, S, NH; R = (un)substituted alk(en)yl, cycloalk(en)yl, hetero/arylalkyl, etc.; R1 = OH and derivs., OPO3H and derivs., OSO2H and derivs., etc.; R2 = H; R3 = halo/alkyl, halo/alkenyl, (un)substituted cycloalk(en)yl, aryl; R4 = (un)substituted cycloalk(en)yl, heterocyclyl, hetero/aryl) were prepared as HIV protease inhibitors. For example, II was prepared, in 62% yield, by coupling acid III (preparation given) with amine IV (preparation given). I showed antiviral activity against Wild-Type HIV in the range of 1 nM to 100 nM.

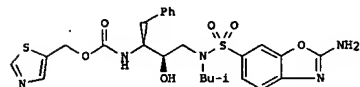
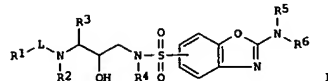
L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:888736 CAPLUS
DOCUMENT NUMBER: 137:384835
TITLE: Preparation of 2-amino-benzoxazole sulfonamide as broad-spectrum HIV protease inhibitors
INVENTOR(S): Suricraus, Dominique Louis Hector Ghislain; Vandeville, Sandrine Marie Helene; Verschueren, Wim Gaston; De Bethune, Marie-Pierre T. M. M. G.; De Kock, Herman Augustinus; Tahri, Abdellah
PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.
SOURCE: PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002092595	A1	20021121	WO 2002-EP5212	20020510
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, NE, NI, NG, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
CA 2444895	AA	20021121	CA 2002-2444895	20020510
EP 1387842	A1	20040211	EP 2002-735354	20020510
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
EE 200300547	A	20040216	EE 2003-547	20020510
BR 2002009594	A	20040330	BR 2002-9594	20020510
CN 1507446	A	20040623	CN 2002-809741	20020510
JP 2004534757	T2	20041118	JP 2002-589478	20020510
NZ 529250	A	20050527	NZ 2002-529250	20020510
ZA 2003007799	A	20050106	ZA 2003-7799	20031006
US 2004106661	A1	20040603	US 2003-474485	20031009
BG 108309	A	20041230	BG 2003-108309	20031103
PRIORITY APPL. INFO.:			EP 2001-201732	A 20010511
OTHER SOURCE(S):			WO 2002-EP5212	W 20020510
GI				

L4 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:322087 CAPLUS
DOCUMENT NUMBER: 140:399222
TITLE: BREED: Generating Novel Inhibitors through Hybridization of Known Ligands. Application to CDK2, F38, and HIV Protease
AUTHOR(S): Pierce, Albert C.; Rao, Govinda; Bemis, Guy W.
CORPORATE SOURCE: Vertex Pharmaceuticals, Cambridge, MA, 02139, USA
SOURCE: Journal of Medicinal Chemistry (2004), 47(11), 2768-2775
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB In this work we describe BREED, a method for the generation of novel inhibitors from structures of known ligands bound to a common target. The method is essentially an automation of the common medicinal chemical practice of joining fragments of two known ligands to generate a new inhibitor. The ligand-bound target structures are overlaid, all overlapping bonds in all pairs of ligands are found, and the fragments on each side of each matching bond are swapped to generate the new mols. Since the method is automated, it can be applied recursively to generate all possible combinations of known ligands. In an application of this method to HIV protease inhibitors and protein kinase inhibitors, hundreds of new mol. structures were generated. These included known inhibitor scaffolds not included in the initial set, entirely novel scaffolds, and novel substituents on known scaffolds. The method is fast, and since all of the ligand functional groups are known to bind the target in the precise position and orientation present in the novel ligand, the success rate of this method should be superior to more traditional de novo design techniques. In an era of increasingly high-throughput structural biology, such methods for high-throughput utilization of structural information will become increasingly valuable.
REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

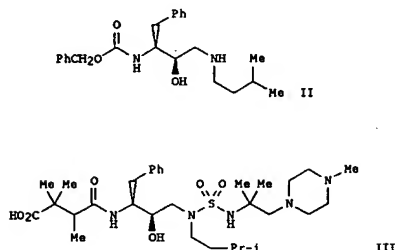


AB Title compds. I (R1, R8 = H, alkyl, alkenyl, arylalkyl, cycloalkyl, aryl, heterocyclyl, etc.; R2 = H, alkyl; L = CO, OCO, NR3CO, etc.; R3 = alkyl, cycloalkyl, aryl, etc.; R4 = H, alkoxy, carbonyl, carboxy, aminocarbonyl, cycloalkyl, etc.; R5-6 = H, alkyl), N-oxides, stereoisomers, metabolites and prodrugs thereof were prepared. For instance, II was prepared from the corresponding diamine (preparation described), N,N'-disuccinimidylcarbonate and 5-hydroxymethylthiazole (CH2Cl2, 6 h). Compds. of the invention are effective in inhibiting a broad range of mutant HIV strains; II had pEC50 = 8.18 against HIV-1 (Lai strain).
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:23862 CAPLUS
 DOCUMENT NUMBER: 136:85665
 TITLE: Succinoylamino hydroxyethylamino sulfonyl urea derivatives useful as retroviral protease inhibitors
 INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel P.; Decrescenzo, Gary A.; Sun, Eric T.
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA
 SOURCE: U.S., 32 pp., Cont. of U.S. Ser. No. 219,048, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6337398	B1	20020108	US 1995-542861	19951013
US 2002198378	A1	20021226	US 2001-11778	20011211
US 6515024	B2	20030204		
US 2004002542	A1	20040101	US 2002-315254	20021210
PRIORITY APPLN. INFO.:			US 1992-969682	B1 19921030
			US 1994-219048	B1 19940328
			US 1995-542861	A3 19951013
			US 2001-11778	A1 20011211

OTHER SOURCE(S): MARPAT 136:85665
 GI



AB Intermediates used for the synthesis of title compds. R33R34X'-C:Y'- (CH2)pCR31R32-CR30R1-C:Y-NR6CH2CH2CH2NR35(O)NR4CR7R7'(CH2)nR8 [R1 = H, CH2SO2NH2, ester, amide, etc.; R2 = alkyl, aryl, cycloalkyl, etc.; R3 = (halo)alkyl, alken(yn)yl, hydroxyalkyl, etc.; R4 = H, R3; R6 = H, alkyl; R7-R' = H, R3, amino acid sidechains, etc.; R8 = CH, OH, alkyl, alkoxy, cycloalkyl, etc.; R30-32 = R1 or one of which combines with R1 to form a cycloalkyl radical; R33-34 = H, R1 or together with X' form a cycloalkyl radical; x = 1 - 2; X' = N, O, CR17, where R17 = H, alkyl; n = 0 - 6; p = 0 - 2; Y, Y' = O, S, NR15, where R15 = H, R3; I] were prepared For example,

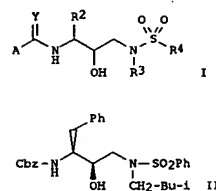
L4 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2000:304314 CAPLUS
 DOCUMENT NUMBER: 132:322147
 TITLE: Preparation of α- and β-amino acid hydroxyethylamino sulfonamides as retro viral protease inhibitors
 INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel P.; Decrescenzo, Gary A.; Freskos, John N.; Heintz, Robert M.; Bertenshaw, Deborah E.
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA
 SOURCE: U.S., 93 pp., Cont.-in-part of Appl. PCT/US93/07814.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6060476	A	20000509	US 1994-204827	19940302
WO 9404492	A1	19940303	WO 1993-US7814	19930824
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
EP 810209	A2	19971203	EP 1997-113434	19930824
EP 810209	A3	19981202		
EP 810209	B1	20020605		
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WO 9506030	A1	19950302	WO 1994-US9139	19940823
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, US, UZ, VN				
RW: KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9476697	A1	19950321	AU 1994-76697	19940823
EP 715618	A1	19960612	EP 1994-927162	19940823
EP 715618	B1	19981216		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
AT 174587	E	19990115	AT 1994-927162	19940823
ES 2127938	T3	19990501	ES 1994-927162	19940823
US 5968942	A	19991019	US 1994-294468	19940823
US 6455581	B1	20002024	US 1995-451090	19950525
US 6248775	B1	20010619	US 1999-280800	19990408
US 6500832	B1	20021231	US 2000-525161	20000314
US 2002052399	A1	20020502	US 2001-798255	20010305
US 6417387	B2	20020709		
US 2003191319	A1	20031009	US 2002-157019	20020530
US 6646010	B2	20031111		
US 2004044047	A1	20040304	US 2002-199481	20020722
US 6846954	B2	20050125		
US 6924286	B1	20050802	US 2003-633376	20030804
US 2004229922	A1	20041118	US 2004-812343	20040330
PRIORITY APPLN. INFO.:			US 1992-934984	B2 19920825
			WO 1993-US7814	A2 19930824
			EP 1993-923714	A3 19930824
			US 1993-110911	A 19930824
			US 1994-204827	A 19940302
			US 1994-294468	A1 19940823

L4 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 N-Chz-L-phenylalanine chloromethyl ketone was reduced (MeOH/THF, -2°C, NaBH4), treated with base (EtOH, KOH) and the resulting epoxide intermediate reacted with isoamylamine (i-PrOH, reflux, 1.5 h) to give homochiral amine II in 31% yield for the 3 steps. II was elaborated by reaction with sulfonyl chlorides/sulfonamides, deprotected and functionalized with succinates to provide compds. I, e.g. claimed compd. III. I are effective as retroviral protease inhibitors, and in particular as inhibitors of HIV protease.
 REFERENCE COUNT: 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 WO 1994-US9139 W 19940823
 US 1995-451090 A3 19950525
 US 1999-280800 A1 19990408
 US 2001-798255 A1 20010305
 US 2002-157019 A1 20020530
 US 2002-199481 A3 20020722

OTHER SOURCE(S): MARPAT 132:322147
 GI



AB Amino acid hydroxyethylamino sulfonamide compds. I (R2 = (un)substituted aryl, (cyclo)alkyl, aralkyl, cycloalkylalkyl; R3 = alkyl, haloalkyl, alkenyl, alkynyl, hydroxy-, alkoxy-, alkylthio-, or alkylsulfonylalkyl, cycloalkylalkyl, heterocycloalkyl, heteroaryl, heterocycloalkylalkyl, aryl, aralkyl, or heteroaralkyl; R4 = heterocycloalkyl, heteroaryl or aryl; Y = O or S; A = heterocycloalkyl, heterocycloalkoxy, heterocycloalkylalkoxy, heteroaralkyl, heteroarylalkoxy, or heteroaryl) were prepared as retroviral protease inhibitors, particular as inhibitors of HIV protease. Thus, compound II (Cbz = benzyloxycarbonyl) was prepared and assayed for HIV inhibitory activity (IC50 = 16 nM). Compds. of formula I were tested for cytotoxicity and efficacy (IC50, EC50 and TD50 values at the nanomolar level are tabulated).
 REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2000:220728 CAPLUS
 DOCUMENT NUMBER: 132:265504
 TITLE: Preparation of hydroxyethylamino sulfonamides useful as retroviral protease inhibitors.
 INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel P.; Decrescenzo, Gary A.; Freskos, John W.; Bereshaw, Deborah E.; Heintz, Robert M. G.D. Searle and Co., USA
 PATENT ASSIGNEE(S): U.S., 119 pp., Cont.-in-part of U.S. 204,872, abandoned.
 SOURCE: CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6046190	A	20000404	US 1996-586866	19960124
WO 9404492	A1	19940303	WO 1993-US7814	19930824
V: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
EP 810209	A2	19971203	EP 1997-113434	19930824
EP 810209	A3	19981202		
EP 810209	B1	20020605		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, NL, SE, PT, IE				
WO 9506030	A1	19950302	WO 1994-US9139	19940823
V: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, US, UZ, VN				
RW: KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 132:265504
 AB Hydroxyethylamino sulfonamide compds. R9R10N(CR7R8)PCHRIC(:Y)NR6CH2R2CH(OH)CH2NR35(O)R4 [I: R1 = H, CH2SO2NH2, CH2CO2CH3, alkyl, haloalkyl, alkenyl, alkynyl, cycloalkyl, amino acid side chains, etc.; R2 = (un)substituted alkyl, aryl, cycloalkyl, cycloalkenyl, aralkyl; R3 = H, alkyl, haloalkyl, alkenyl, alkynyl, aryl, heteroaryl, mono- and disubstituted aminoalkyl, etc.; R4 = alkyl, haloalkyl, alkenyl, alkynyl, aryl, (un)saturated heterocycle, (un)substituted aromatic heterocycloalkyl, etc.; R6 = H, alkyl; Y = O, S, NR3; R7, R8 = independently H, R1, or together with R1 and the carbon atoms to which they are attached represent a cycloalkyl radical; R9 = H, R3, or R3SO2; R10 = H, alkoxy, carbonyl, alkyl, carbonyl, acryl, aryl, carbonyl, heterocycloalkyl, carbonyl, mono- and disubstituted aminocarbonyl, or aminoalkenyl, etc.; or R9R10 = heterocycloalkyl or heteroaryl; x = 0-2; p = 0-1] or their pharmaceutically acceptable salts, prodrugs, or esters were prepared as inhibitors of retroviral proteases such as human immunodeficiency virus

L4 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 (HIV). Many inhibitors were prepd. by (1) prep. an N-protected amino epoxide and (2) reacting this with an amine and (3) prep. a sulfonamide by reacting with a sulfonyl chloride or sulfonyl anhydride in the presence of an acid scavenger. The amino function of the sulfonamide was then (4) deprotected and (5) reacted with a carboxylate. Thus, N1-[2R-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-15-(phenylmethyl)propyl]-2S-[(2-quinolinylcarboxyl)amino]butanediamide was prepd. and assayed for HIV protease inhibitory activity (IC50 = 1.5 nM). Compds. of formula I were tested for cytotoxicity and antiviral efficacy (IC50, EC50, and TD50 values at the nanomolar level are tabulated).
 REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1999:811207 CAPLUS
 DOCUMENT NUMBER: 132:49801
 TITLE: Preparation of 1-acylamino-3-(N-arylsulfonyl-N-alkoxyamino)-2-hydroxypropanes and related compounds as inhibitors of HIV aspartyl protease.
 INVENTOR(S): Sherrill, Ronald George; Hale, Michael R.; Spaltenstein, Andrew; Furfine, Eric Steven; Andrews, Clarence Webster, III; Lowen, Gregory Thomas
 PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA
 SOURCE: PCT Int. Appl., 344 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9965870	A2	19991223	WO 1999-US13744	19990617
WO 9965870	A3	20010315		
V: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CH, GA, GN, GW, ML, MR, NE, NI, SN, TD, TG				
CA 2335477	AA	19991223	CA 1999-2335477	19990617
AU 9945760	A1	20000105	AU 1999-45760	19990617
AU 767728	B2	20031120		
EP 1086076	A1	20010328	EP 1999-928769	19990617
EP 1086076	B1	20041222		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9912169	A	20010410	BR 1999-12169	19990617
NZ 508855	A	20031031	NZ 1999-508855	19990617
AT 285396	E	20050115	AT 1999-928769	19990617
ES 2235492	T3	20050701	ES 1999-928769	19990617
US 2002049201	A1	20020425	US 2000-731129	20001206
US 6613743	B2	20030902		
NO 2000006405	A	20010219	NO 2000-6405	20001215
US 2004097594	A1	20040520	US 2003-600937	20030620
NZ 528074	A	20041126	NZ 2003-528074	20030908
PRIORITY APPLN. INFO.:			US 1998-90094P	P 19980619
			WO 1999-US13744	W 19990617
			US 2000-731129	A3 20001206

OTHER SOURCE(S): MARPAT 132:49801
 AB ABxN(Gx)CHDCHOR7CH2ND'SO2E [A = H, (substituted) Ht, R1Ht, R1Ak; Ak = alkyl; Ht = cycloalkyl, cycloalkenyl, (substituted) aryl, heterocyclyl; R1 = CO, SO2, COCO, O2C, NR2CO, NR2SO2, etc.; B = null, NR2C(R3)ZCO; x = 0, 1; R2 = H, (substituted) Ht, alkyl; R3 = H, (substituted) Ht, alkyl, alkenyl, cycloalkyl, cycloalkenyl; G = null, H, R7, alkyl; G may be bound to R7; D = (substituted) Q, alkyl, alkenyl; Q = (substituted) carbocyclyl, heterocyclyl; D' = OR10, N(R10)R1R3; E = Ht, OHT, OR3, NR2R3, (substituted) alkyl, alkenyl, etc.; R7 = H, (CH2O)X(ZM)(:X)Z(M)x, etc.; M = null, H, Li, Na, K, Mg, Ca, Ba, alkyl, alkenyl, etc.; X = O, S; Y = P, S; Z = O, S, N(R2)2, H], were prepared as inhibitors of HIV aspartyl protease (no data). Thus, 3-H2NCGH45O2NHCHMe2 (preparation given), tert-Bu

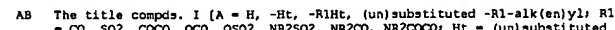
L4 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 N-(15)-1-[(2S)-oxiran-2-yl]-2-phenylethylcarbamate, and phosphazene base P4 tert-Bu were stirred in 8 h in THF to give 95% tert-Bu N-(15,2R)-3-[(3-aminophenyl)sulfonyl] (isopropoxy) amino]-1-benzyl-2-hydroxypropylcarbamate.

REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

US 0924280	BT	20030802	US 2003-093370	20030804
PRIORITY APPLN. INFO.:			US 1992-934984	B2 19920825
			EP 1993-923714	A3 19930824
			US 1993-110911	A 19930824

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

OTHER SOURCE(S): MARPAT 129:136097
GI



L4 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 cycloalk(en)yl, aryl, (benzo)heterocyclyl; R2 = H, alkyl, -alkyl-R7; B = NR2C(R3)2CO; n = 0, 1; R3 = (un)substituted alk(en)yl or cycloalk(en)yl; n = 1, 2; D, D' = R7, (un)substituted alk(en)yl or cycloalk(en)yl; R7 = (un)substituted Ph, carbocyclyl, or heterocyclyl; E = Ht, -O-Ht, -Ht-Ht, OR3, NR2R3, (un)substituted alk(en)yl or carbocyclyl; R4 = OR2, CONHR2, SO2NHR2, halo, NR2COR2, cyano] are prepd. as inhibitors of HIV aspartyl protease. The invention also relates to pharmaceutical compns. comprising these compds. The compds. and pharmaceutical compns. are particularly well suited for inhibiting HIV-1 and HIV-2 protease activity. The invention also relates to methods for inhibiting the activity of HIV aspartyl protease using the invention compds., and to methods for screening compds. for anti-HIV activity. Prepn. of almost 200 compds. are described, and some of these plus addnl. compds. are claimed. Some of the compds., e.g., II, inhibit HIV replication (IC90) in CCRM-CEN cells in vitro at concns. of 5 100 nM.
 REFERENCE COUNT: 77 THERE ARE 77 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

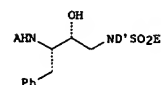
L4 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1998:501276 CAPLUS
 DOCUMENT NUMBER: 129:170511
 TITLE: Use of quinoxalines in three-way combinations with protease inhibitors and reverse transcriptase inhibitors as a drug for treating AIDS and/or HIV infections
 INVENTOR(S): Paessens, Arnold; Blunck, Martin; Riess, Guenter; Klein, Joerg-Peter; Roesner, Manfred
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Ger. Offen., 22 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19703131	A1	19980730	DE 1997-19703131	19970129
CA 2278773	AA	19980730	CA 1998-2278773	19980115
WO 9832442	A1	19980730	WO 1998-EP197	19980115
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MW, MY, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9860940	A1	19980818	AU 1998-60940	19980115
EP 977570	A1	20000209	EP 1998-905297	19980115
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI				
BR 9807523	A	20000321	BR 1998-7523	19980115
JP 2001511124	T2	20010807	JP 1998-531540	19980115
ZA 9800679	A	19980805	ZA 1998-679	19980128
NO 9903670	A	19990910	NO 1999-3670	19990728
MX 9907077	A	20000531	MX 1999-7077	19990729
PRIORITY APPLN. INFO.: DE 1997-19703131 A 19970129 WO 1998-EP197 V 19980115				
AB Quinoxaline derivs. in combination with protease inhibitors and reverse transcriptase inhibitors inhibited HIV replication in human lymphocytes. Such 3-way combinations are synergistic and may be used to treat persons with HIV infections or AIDS.				

L4 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1997:9928 CAPLUS
 DOCUMENT NUMBER: 126:144117
 TITLE: Preparation of sulfonamide inhibitors of aspartyl protease
 INVENTOR(S): Tung, Roger D.; Murcko, Mark A.; Bhisetti, Govinda R.
 PATENT ASSIGNEE(S): Vertex Pharmaceuticals, Incorporated, USA
 SOURCE: U.S., 87 pp., Cont.-in-part of U.S. Ser. No. 941,982, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5585397	A	19961217	US 1993-142327	19931124
WO 9405639	A1	19940317	WO 1993-US8458	19930907
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
EP 885887	A2	19981223	EP 1998-113921	19930907
EP 885887	A3	19990203		
EP 885887	B1	20030528		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
US 5783701	A	19980721	US 1995-393460	19950223
US 5723490	A	19980303	US 1995-424819	19950419
US 5856353	A	19990105	US 1995-477937	19950607
US 6372778	B1	20020416	US 1995-484326	19950607
US 5977137	A	19991102	US 1998-115394	19980714
US 6004957	A	19991221	US 1998-121008	19980722
US 6392046	B1	20020521	US 1999-409808	19990930
US 2003064977	A1	20030403	US 2002-94763	20020308
US 6720335	B2	20040413		
US 2003069222	A1	20030410	US 2002-94790	20020308
US 2004167116	A1	20040826	US 2004-786997	20040224
PRIORITY APPLN. INFO.: US 1992-941982 B2 19920908 WO 1993-US8458 W 19930907 EP 1993-921428 A3 19930907 US 1993-142327 A2 19931124 US 1995-393460 B2 19950223 US 1995-484326 A3 19950607 US 1998-115394 A3 19980714 US 1999-409808 A3 19990930 US 2002-94763 A1 20020308				
OTHER SOURCE(S): MARPAT 126:144117				
GI				

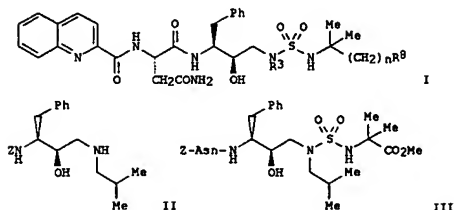
L4 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 AB The title compds. I [A = 3-tetrahydrofuryloxycarbonyl; D' = (un)substituted alkyl; E = (un)substituted aryl] are prepared. This invention also relates to pharmaceutical compns. comprising these compds. The compds. and pharmaceutical compns. of this invention are particularly well suited for inhibiting HIV-1 and HIV-2 protease activity and consequently, may be advantageously used as antiviral agents against the HIV-1 and HIV-2 viruses. This invention also relates to methods for inhibiting the activity of HIV aspartyl protease using the compds. of this invention and methods for screening compds. for anti-HIV activity. The title compds. inhibit HIV replication at concentration of 5 100 nM.



L4 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1996:725344 CAPLUS
 DOCUMENT NUMBER: 126:75247
 TITLE: Preparation of α - and β -amino acid hydroxyethylamino sulfonyl urea derivatives as retroviral protease inhibitors
 INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel P.; Decrescenzo, Gary A.; Sun, Eric T.
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA
 SOURCE: U.S., 37 pp.
 CODEN: USXOAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5578606	A	19961126	US 1992-968712	19921030
US 6022872	A	20000208	US 1996-709069	19960906
US 6211176	B1	20010403	US 1999-345739	19990701
US 6403585	B1	20020611	US 2000-731911	20001208
US 2003144342	A1	20030731	US 2002-138534	20020506
US 6583648	B2	20040127		
US 2004171653	A1	20040902	US 2003-689513	20031021
PRIORITY APPL. INFO.:			US 1992-968712	A3 19921030
			US 1996-709069	A1 19960906
			US 1999-345739	A1 19990701
			US 2000-731911	A1 20001208
			US 2002-138534	A1 20020506

OTHER SOURCE(S): MARPAT 126:75247
 GI

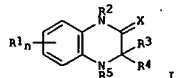


AB α - and β -amino acid hydroxyethylamino sulfonyl urea derivative compds., e.g. I [R3 = C1-8 alkyl, (un)substituted C1-8 alkylphenyl, C1-8 heteroaralkyl; R8 = (un)substituted Ph, heterocyclyl, CN, OH, CO2H, C1-8 alkylthio, (un)substituted phenylsulfonyl, C1-8 alkanoyl, C1-8 alkoxycarbonyl, C1-8 dialkylaminocarbonyl, N-C1-8-alkyl-N-phenylcarbamoyl, 2-heterocyclylethoxy, heterocyclyl; n = 0-2], are

L4 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1996:601709 CAPLUS
 DOCUMENT NUMBER: 125:238651
 TITLE: Use of quinoxalines and protease inhibitors in a composition for the treatment of AIDS and/or HIV infections
 INVENTOR(S): Passens, Arnold; Blunck, Martin; Riess, Guenther; Klein, Joerg-Peter; Roesner, Manfred
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Eur. Pat. Appl., 24 pp.
 CODEN: EPOXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 728481	A2	19960828	EP 1996-102129	19960214
EP 728481	A3	19980708		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
DE 19506742	A1	19960828	DE 1995-19506742	19950227
AU 9645615	A1	19960905	AU 1996-45615	19960220
AU 710158	B2	19990916		
CA 2170222	AA	19960828	CA 1996-2170222	19960223
FI 9600850	A	19960828	FI 1996-850	19960223
JP 08245392	A2	19960924	JP 1996-60286	19960223
IL 117247	A1	20001031	IL 1996-117247	19960223
NO 9600775	A	19960828	NO 1996-775	19960226
ZA 9601516	A	19960903	ZA 1996-1516	19960226
BR 9600809	A	19971223	BR 1996-809	19960226
CN 1141196	A	19971029	CN 1996-102709	19960227
PRIORITY APPL. INFO.:			DE 1995-19506742	A 19950227

OTHER SOURCE(S): MARPAT 125:238651
 GI



AB Combinations of a quinoxaline derivative [I; R1 = halo, OH, NO2, (substituted) amino, N3, CF3, CF3O, C1-8 alkyl, CN, (substituted) Ph, N-heterocyclyl, etc.; R2, R5 = H, OH, C1-6 alkoxy, aryloxy, C1-6 acyloxy, CN, (substituted) amino, (substituted) C1-8 alkyl, (substituted) C2-8 alkenyl, (substituted) C3-8 alkynyl, (substituted) C3-8 cycloalk(en)yl, etc.; R3, R4 = H, (substituted) C1-8 alkyl, (substituted) C2-8 alkenyl, (substituted) C3-8 cycloalk(en)yl, (substituted) aryl, etc.; or R3R4 or R3R5 complete a (substituted) ring; X = O, S, Se, NR2; n = 0-4] and a peptidomimetic protease inhibitor are useful for treatment of HIV infections and AIDS. Thus, I [R1 = 6-MeO, R2 = R3 = H, R4 = (S)-MeSCH2, R5 = 1-PrO2C, X = S] (0.7-6 nM) and saquinavir (6-50 nM) synergistically inhibited syncytium formation in HIV-infected human lymphocytes in vitro.

L4 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 effective as retroviral protease inhibitors, and in particular as inhibitors of HIV protease. Thus, coupling of protected amino(hydroxy)phenylbutylamine II (Z = PhCH2O2C) (prepd. in 3 steps from chloromethyl ketone Z-L-Phe-CH2Cl) with C15O2NHCMe2CO2Me, followed by hydrogenolysis and coupling with 2-Asn-OH gave inhibitor III.

L4 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1996:153437 CAPLUS
 DOCUMENT NUMBER: 124:220480
 TITLE: Retroviral protease inhibitor combinations
 INVENTOR(S): Bryant, Martin L.; Potts, Karen E.; Smidt, Mary; Tucker, Simon P.
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA
 SOURCE: PCT Int. Appl., 64 pp.
 CODEN: PIXX02
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9533464	A2	19951214	WO 1995-US6673	19950602
WO 9533464	A3	19960104		
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2191948	AA	19951214	CA 1995-2191948	19950602
AU 9526510	A1	19960104	AU 1995-26510	19950602
AU 966299	B2	19980903		
EP 762880	A1	19970319	EP 1995-921428	19950602
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
BR 9507912	A	19970812	BR 1995-7912	19950602
CN 1166786	A	19971203	CN 1995-194464	19950602
HU 76979	A2	19980128	HU 1996-3328	19950602
JP 10505324	T2	19980526	JP 1995-501057	19950602
NZ 287702	A	20000623	NZ 1995-287702	19950602
US 6100277	A	20000808	US 1995-458154	19950602
PL 180070	B1	20001229	PL 1995-317425	19950602
RU 2166317	C2	20010510	RU 1997-100123	19950602
NO 9605136	A	19970120	NO 1996-5136	19961202
FI 9604835	A	19970129	FI 1996-4835	19961203
US 2003207813	A1	20031106	US 2002-253899	20020925
PRIORITY APPL. INFO.:			US 1994-253638	A2 19940603
			WO 1995-US6673	W 19950602
			US 1996-737960	B1 19961209

AB A method is disclosed for the treatment of mammalian retrovirus infections, e.g. HIV, using combinations of retroviral protease inhibitors which are effective in preventing the replication of the retroviruses in vitro or in vivo. In particular, the invention provides protease inhibitor compds. used in combination therapy with other protease inhibitor compds. Also disclosed is combination therapy with a combination of protease inhibitors and antiviral agents other than protease inhibitors. Preparation and activity of selected inhibitors is included.

L4 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1996:47171 CAPLUS
 DOCUMENT NUMBER: 124:193129
 TITLE: Determination of protein binding by in vitro charcoal adsorption
 AUTHOR(S): Yuan, Jinhua; Yang, Dai Chang; Birkmeier, Jill; Stolzenbach, James
 CORPORATE SOURCE: Pharmacokinetics, Bioanalytical and Radiochemistry Function, G. D. Searle Research and Development, Skokie, IL, 60077, USA
 SOURCE: Journal of Pharmacokinetics and Biopharmaceutics (1995), 23(1), 41-55
 CODEN: JPBPPJ; ISSN: 0090-466X
 PUBLISHER: Plenum
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB

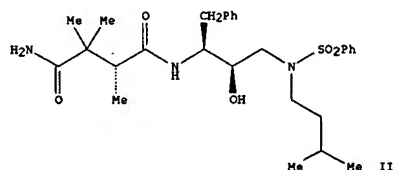
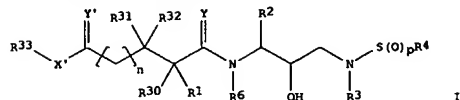
Certain compds. such as SC-52151 have extensive nonspecific adsorption to the ultrafiltration devices or to dialysis membranes and therefore can not be measured by the conventional ultrafiltration or equilibrium dialysis methods. A new method based on charcoal adsorption was developed to overcome this difficulty. Unlike many conventional methods, which are based on the separation of free drug from bound drug under equilibrium conditions, the new method is operated under nonequilibrium conditions and involves measuring the time course of decline of the percentage of bound drug remaining in plasma while the free drug is being removed by charcoal adsorption. Theor. aspects of the method and the data processing procedure are presented. SC-98A, a compound with minimal nonspecific adsorption to the ultrafiltration membrane, was used to demonstrate the applicability of this method against the ultrafiltration method. Using this method, the protein binding of SC-52151 in human plasma at 1.0 µg/mL was determined to be in the range of 91.4-97.7% at room temperature

L4 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1995:964989 CAPLUS
 DOCUMENT NUMBER: 124:176937
 TITLE: N-[(Succinoylamino)hydroxypropyl]sulfonamides useful as retroviral protease inhibitors
 INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel; Decrescenzo, Gary A.; Freskos, John N.
 PATENT ASSIGNEE(S): G. D. Searle and Co., USA
 SOURCE: U.S., 32 pp. Cont.-in-part of U.S. Ser. No. 935,490, abandoned
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5463104	A	19951031	US 1993-110912	19930824
AT 154800	E	19970715	AT 1993-920213	19930824
ES 2103488	T3	19970916	ES 1993-920213	19930824
US 5714605	A	19980203	US 1995-541350	19951010
US 5760076	A	19980602	US 1995-541747	19951010
US 6022994	A	20000208	US 1998-41016	19980312
US 6313345	B1	20011106	US 1999-419816	19991018
US 2002137942	A1	20020926	US 2001-884462	20010620
US 6469207	B2	20021022		
US 2003220508	A1	20031127	US 2002-237184	20020909
US 6727282	B2	20040427		
US 2005004043	A1	20050106	US 2004-784916	20040224
PRIORITY APPLN. INFO.:			US 1992-935490	B2 19920825
			US 1993-110912	A3 19930824
			US 1995-541350	A1 19951010
			US 1995-541747	A1 19951010
			US 1998-41016	A1 19980312
			US 1999-419816	A1 19991018
			US 2001-884462	A1 20010620
			US 2002-237184	A1 20020909

OTHER SOURCE(S): MARPAT 124:176937
 GI

L4 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



AB Succinoylamino hydroxyethylamino sulfonamide compds. I or a pharmaceutically acceptable salt or ester thereof, wherein p represents 0, 1 or 2; n represents either 0 or 1; X' represents N(R34) or O; or R33X' represents cycloalkyl or aryl radicals; Y and Y' each independently represent O or S; R1, R30, R31 and R32 each independently represent hydrogen, OH, (CH2)C(O)CH3, CH2SO2NH2, CO2CH3, CONHCH3, CON(CH3)2, CH2C(O)NHCH3, CH2C(O)N(CH3)2, CONH2, C(CH3)2(SH), C(CH3)2(SCH3), C(CH3)2(S(O)CH3), C(CH3)2(S(O)2CH3), alkyl, haloalkyl, alkenyl, alkynyl, aralkyl or cycloalkyl radicals, or the side chain of the amino acid asparagine, S-Me cysteine or the corresponding sulfoxide or sulfone derivative thereof, leucine, isoleucine, allo-isoleucine, tert-leucine, phenylalanine, ornithine, alanine, norleucine, glutamine, valine, threonine, serine, o-alkyl serine, aspartic acid, β-cyanoalanine or allothreonine; or R30 and R32 together with the carbon atoms to which they are attached form a cycloalkyl radical; R2 = e.g., alkyl, aryl, cycloalkyl; R3, R33, R34 = e.g., H, alkyl, haloalkyl; R4 = e.g., alkyl, haloalkyl, alkenyl; R6 = H, alkyl; are effective as retroviral protease inhibitors, and in particular as inhibitors of HIV protease. Thus, e.g., butanediamide II was prepared by coupling of benzyl (R)-2,2,3-trimethylsuccinate (preparation given) with 2(R)-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1(S)-(phenylmethyl)propylamine (preparation given) followed by benzyl ester hydrolysis and amidation, and exhibited IC50 = 2 nM for inhibition of HIV protease.

L4 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1995:871984 CAPLUS
 DOCUMENT NUMBER: 123:279761
 TITLE: Hydroxyethylamino sulfonamides useful as retroviral protease inhibitors
 INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel P.; Decrescenzo, Gary A.; Freskos, John N.; Bertenshaw, Deborah E.; Heintz, Robert M.
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Monsanto Co.
 SOURCE: PCT Int. Appl., 255 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9506030	A1	19950302	WO 1994-US9139	19940823
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, UA, US, US, UZ, VN				
RW: KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5843946	A	19981201	US 1993-110911	19930824
US 6060476	A	20000509	US 1994-204827	19940302
US 9476697	A1	19950321	US 1994-76697	19940823
EP 715618	A1	19960612	EP 1994-927162	19940823
EP 715618	B1	19981216		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
US 6046190	A	20000404	US 1996-586866	19960124
PRIORITY APPLN. INFO.:			US 1993-110911	A 19930824
			US 1994-204827	A 19940302
			US 1992-934984	B2 19920825
			WO 1993-US7814	A2 19930824
			US 1994-204827	B2 19940302
			WO 1994-US9139	W 19940823

OTHER SOURCE(S): MARPAT 123:279761
 AB Hydroxyethylamino sulfonamide compds. AC:(Y)NR6CHR2CHONCH2NR3S:(O)xR4 [I: R2=(substituted)alkyl, aryl, cycloalkyl, cycloalkylalkyl, aralkyl; R3=H; R3,R4=R2, alkenyl, alkynyl, heterocycloalkyl, -aryl, -aralkyl, -cycloalkylalkyl; R6=H, alkyl; x=1,2; Y=O, S; A=RO, R=alkyl, alkenyl; (hetero)aryl, cycloalkyl, cycloalkylalkyl, aralkyl, NH2, mono- or disubstituted amino, etc.] are effective as retroviral protease inhibitors, and in particular as inhibitors of HIV protease. Many inhibitors were prepared by (1) preparing an N-protected amino epoxide and (2) reacting this with an amine and (3) preparing a sulfonamide by reacting with a sulfonyl chloride or sulfonyl anhydride in the presence of an acid scavenger. The amino function of the sulfonamide was then (4) deprotected and (5) reacted with a carboxylate. In vitro HIV protease assays with these compds. revealed inhibitors with IC50's as low as 1.4 nM, e.g., [15-{[R' (S'), 2S']}]-1 (A-p-HwOC6H4CH2COONHCH2CMe; Y=O; R6=H; R2=benzyl; R3=3-methylbutyl; x=2; R4=phenyl).

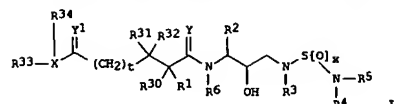
L4 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1995:352211 CAPLUS
 DOCUMENT NUMBER: 122:204547
 TITLE: Inhibitors of HIV-1 Protease Containing the Novel and Potent (R)-(Hydroxyethyl)sulfonamide Isostere
 AUTHOR(S): Vazquez, Michael L.; Bryant, Martin L.; Clare, Michael; DeCrescenzo, Gary A.; Doherty, Elizabeth M.; Freskos, John N.; Getman, Daniel P.; Houseman, Kathryn A.; Julien, Janet A.; et al.
 CORPORATE SOURCE: Searle Discovery Research, Skokie, IL, 60077, USA
 SOURCE: Journal of Medicinal Chemistry (1995), 38(4), 581-4
 CODEN: JMCMAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 122:204547

AB The authors have prepared and tested a series of novel and highly potent HIV-1 protease inhibitors based on the (R)-(hydroxyethyl)sulfonamide isostere. The isostere exhibits enhanced potency relative to the previously reported (hydroxyethyl)urea isostere. The preferred stereochem. for the critical hydroxyl group is R. X-ray crystallog. studies show that these inhibitors bind to the protease in an extended fashion with one of the sulfonamide oxygens forming a hydrogen bond to the key structural water mol. Some of the compds. showed excellent antiviral activity in vitro.

L4 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1995:340526 CAPLUS
 DOCUMENT NUMBER: 122:133838
 TITLE: Preparation of succinoylamino hydroxyethylamino sulfamic acid derivatives as retroviral protease inhibitors
 INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel P.; De Crescenzo, Gary A.; Sun, Eric T.
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Monsanto Co.
 SOURCE: PCT Int. Appl.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9410133	A1	19940511	WO 1993-US10460	19931029
V: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2141570	AA	19940511	CA 1993-2141570	19931029
AU 9455892	A1	19940524	AU 1994-55892	19931029
EP 666841	A1	19950816	EP 1994-901230	19931029
EP 666841	B1	19970122		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
AT 148105	E	19970215	AT 1994-901230	19931029
ES 2097023	T3	19970316	ES 1994-901230	19931029
US 5602119	A	19970211	US 1995-379573	19950131
PRIORITY APPLN. INFO.:			US 1992-969683	A 19921030
OTHER SOURCE(S):		MARPAT 122:133838	WO 1993-US10460	W 19931029
GI				

L4 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



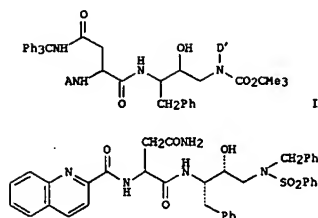
L4 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
groups cited for R3, R'SO2; R' = groups cited for R3; NRR' = heterocyclyl, heteroaryl; R1, R7, R8 = H, (halo)alkyl, amino acid side chain, CONH2, CO2Me, etc.; R1R7 = atoms to form a cycloalkyl group; R2 = (un)substituted (cyclo)alkyl, aryl(alkyl); R3 = (cyclo)alkyl, (hetero)aryl(alkyl), aminoalkyl, etc.; R4, R5 = H, groups cited for R3; NR4R5 = heterocyclyl, heteroaryl; R6 = H, alkyl; Y = O, S, NH, NR3; t = 0-2; x = 1 or 2] were prepd. Thus, N-benzylloxycarbonyl-3(S)-amino-1,2(S)-epoxy-4-phenylbutane (prepn. given) was condensed with Me2CHCH2NH2 and the product amidated by ClSO2NHCH3 (prepn. given) to give, after deprotection, sulfamide I (R10 = H) which was N-acylated by N-BOC-L-asparagine and the deprotected product N-acylated by quinoline-2-carboxylic acid to give I (R10 = quinolinoylasparaginy group Q). The latter had IC50 of 2nM against HIV-1 infection of CEM cells in vitro.

L4 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:293723 CAPLUS
DOCUMENT NUMBER: 122:81141
TITLE: Preparation of heterocyclylarylsulfonamide inhibitors of HIV-aspartyl protease
INVENTOR(S): Tung, Roger D.; Murcko, Mark A.; Bhisetti, Govinda Rao
PATENT ASSIGNER(S): Vertex Pharmaceuticals Inc., USA
SOURCE: PCT Int. Appl., 291 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9405639	A1	19940317	WO 1993-US8458	19930907
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
LT 3302	B	19950626	LT 1993-917	19930901
IL 106927	A1	20010111	IL 1993-106927	19930906
EP 659181	A1	19950626	EP 1993-921428	19930907
EP 659181	B1	19990407		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 08501299	T2	19960213	JP 1994-507525	19930907
HU 71892	A2	19960228	HU 1995-685	19930907
AU 691160	B2	19980514	AU 1993-48520	19930907
AU 9348520	A1	19940329		
EP 885887	A2	19981223	EP 1998-113921	19930907
EP 885887	A3	19990203		
EP 885887	B1	20030528		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, PT, IE				
AT 178598	E	19990415	AT 1993-921428	19930907
ES 2131509	T3	19990801	ES 1993-921428	19930907
RU 2135496	C1	19990827	RU 1995-109928	19930907
SK 281360	B6	20010212	SK 1995-293	19930907
CZ 289475	B6	20020116	CZ 1995-587	19930907
CA 2143208	C	20030107	CA 1993-2143208	19930907
AT 241602	E	20030615	AT 1998-113921	19930907
PL 185635	B1	20030630	PL 1993-307858	19930907
RO 118747	B1	20031030	RO 1995-479	19930907
PT 885887	T2	20031031	PT 1998-113921	19930907
ES 2200243	T3	20040301	ES 1998-113921	19930907
CN 1087347	A	19940601	CN 1993-117370	19930908
CN 1061339	B	20010131		
ZA 9308470	A	19940620	ZA 1993-8470	19931112
US 5585397	A	19961217	US 1993-142327	19931124
FI 9501059	A	19950418	FI 1995-1059	19950307
NO 9500876	A	19950508	NO 1995-876	19950307
NO 303444	B1	19980713		
HK 1012631	A1	20000623	HK 1998-113971	19981217
HK 1023561	A1	20040716	HK 2000-100689	19981217
			EP 1993-921428	A2 19920908
			WO 1993-US8458	A3 19930907
				W 19930907

PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 122:81141
GI

L4 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



AB Title compds. A(B)XNHCH(D)CH(OH)CH2N(D')SO2E (A = H, Het, R1-Het, (substituted)R1-C1-6 alkyl, (substituted) R1-C2-6 alkenyl wherein R1 = CO, SO2, COCO, O2C, etc., Het = C5-7 cycloalkyl, C5-7 cycloalkenyl, C6-10 aryl, (substituted) 5-7-membered heterocyclyl; R2 = H, (Ar)-C1-3 alkyl; B = NR2CR3CO, null wherein R3 = H, (substituted)Het or C1-6 alkyl or C2-6 alkenyl or C3-6 cycloalkyl or C5-6 cycloalkenyl; x = 0,1; D, D' = Ar, (substituted) C1-4 alkyl wherein Ar = Ph, (substituted) 3-6-membered carbocyclyl or 5-6-membered heterocyclyl; E = Het-O, Het-Het, (substituted) C1-6 alkyl or C2-6 alkenyl, C3-6 carbocyclyl) useful also against viral infection of HIV-2, HIV-2, or HTLV, are prepared 4,3-(AcNH)FC6H3SO2Cl and syn-I (A = quinolin-2-ylcarbonyl, D' = Me2CHCH2) (preparation given) in CH2Cl2 was treated with F3CCO2H followed by NaHCO3 and

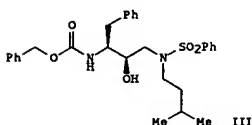
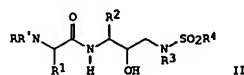
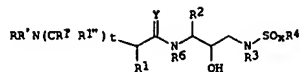
4-FC6H4SO2Cl to give the title compound II which inhibited HIV-1 protease with IC50 of <0.1 nM.

L4 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:701324 CAPLUS
DOCUMENT NUMBER: 121:301324
TITLE: Preparation of hydromethylamino sulfonamides useful as retroviral protease inhibitors
INVENTOR(S): Vasquez, Michael L.; Muller, Richard A.; Talley, John J.; Getman, Daniel; Decrescenzo, Gary A.; Freskos, John N.
PATENT ASSIGNER(S): G.D. Searle and Co., USA; Monsanto Co.
SOURCE: PCT Int. Appl., 198 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9404492	A1	19940303	WO 1993-US7814	19930824
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
EP 656887	A1	19950614	EP 1993-923714	19930824
EP 656887	B1	19981028		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 08501288	T2	19960213	JP 1994-506530	19930824
JP 3657002	B2	20050608		
AU 680635	B2	19970807	AU 1994-53474	19930824
AU 9453474	A1	19940315		
EP 810209	A2	19971203	EP 1997-113434	19930824
EP 810209	A3	19981202		
EP 810209	B1	20020605		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, PT, IE				
AT 172717	E	19981115	AT 1993-923714	19930824
ES 2123065	T3	19990101	ES 1993-923714	19930824
RU 2173680	C2	20010920	RU 1995-106624	19930824
AT 218541	E	20020615	AT 1997-113434	19930824
PT 810209	T	20020930	PT 1997-113434	19930824
ES 2177868	T3	20021216	ES 1997-113434	19930824
US 6060476	A	20000509	US 1994-204827	19940302
US 5968942	A	19991019	US 1994-294468	19940823
NO 9500533	A	19950213	NO 1995-533	19950213
FI 9500650	A	19950214	FI 1995-650	19950214
FI 112471	B1	20031215		
US 6455581	B1	20020924	US 1995-451090	19950525
US 6046190	A	20000404	US 1996-586866	19960124
NO 9803099	A	19950213	NO 1998-3099	19980703
NO 307047	B1	20000131		
US 6248775	B1	20010619	US 1999-288080	19990408
US 6500832	B1	20021231	US 2000-525161	20000314
US 2002052399	A1	20020502	US 2001-798255	20010305
US 6417397	B2	20020709		
FI 2001002317	A	20011127	FI 2001-2317	20011127
US 2003191319	A1	20031009	US 2002-157019	20020530
US 6646010	B2	20031111		
US 2004044047	A1	20040304	US 2002-199481	20020722
US 6846954	B2	20050125		
US 6924286	B1	20050802	US 2003-633376	20030804
US 2004229922	A1	20041118	US 2004-812343	20040330

L4 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 PRIORITY APPL. INFO.:
 US 1992-934984 A2 19920825
 EP 1993-923714 A3 19930824
 US 1993-110911 A2 19930824
 WO 1993-US7814 W 19930824
 US 1994-204827 A2 19940302
 US 1994-204872 B2 19940302
 US 1994-294468 A1 19940823
 WO 1994-US9139 W 19940823
 US 1995-451090 A3 19950525
 US 1999-288080 A1 19990408
 US 2001-798255 A1 20010305
 US 2002-157019 A1 20020530
 US 2002-199481 A3 20020722

OTHER SOURCE(S): MARPAT 121:301324
 GI

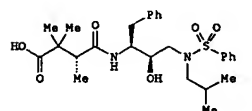


AB Title compds. [I and II; R = H, alkoxycarbonyl, aralkoxycarbonyl, alkylcarbonyl, cycloalkylcarbonyl, heterocyclylcarbonyl, heteroarylalkyl, hydroxyalkyl, aryl, alkyl, alkenyl, alkynyl, substituted aminocarbonyl, etc.; R' = H, R3, R' SO2; RR'N = heterocyclyl, heteroaryl; R1 = H, CH2SO2NH2, CH2CO2Me, CO2Me, CONH2, CMe2SH, alkyl, haloalkyl, alkenyl, alkynyl, cycloalkyl, amino acid side chains, etc.; R1', R1'' = H, R1; 1 of R1', R1'' together with R1 form a cycloalkyl radical; R2 = (substituted) alkyl, aryl, cycloalkyl, cycloalkylalkyl, aralkyl; R3 = H, alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl, heterocycloalkyl, heteroaryl, aryl, aralkyl, heteroaralkyl, (substituted) aminoalkyl, etc.; R4 = R3, except H; R6 = H, alkyl; x = 0-2; t = 0, 1; Y = O, S, imino], were prepared Thus, title compound [III, solution phase preparation given] inhibited HIV protease with IC50 = 16 nM.

L4 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 protease inhibitors for the treatment of AIDS, are prepd. Thus, sulfonamide I was prepd. and demonstrated IC50 against HIV protease of 1 nmol.

L4 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1994:579258 CAPLUS
 DOCUMENT NUMBER: 121:179258
 TITLE: N-(alkanoylamino-2-hydroxypropyl)sulfonamides useful as HIV protease inhibitors
 INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel; Decrescenzo, Gary A.; Freskos, John N.
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Monsanto Co.
 SOURCE: PCT Int. Appl., 103 pp.
 CODEN: PIKX02
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9404491	A1	19940303	WO 1993-US7815	19930825
V:	AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MV, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN			
RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CH, GA, GN, HL, HR, NE, SN, TD, TG			
EP 656886	A1	19950614	EP 1993-920213	19930824
EP 656886	B1	19970625		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE			
JP 08500824	T2	19960130	JP 1993-506531	19930824
AT 154800	E	19970715	AT 1993-920213	19930824
ES 2103488	T3	19970916	ES 1993-920213	19930824
AU 674702	B2	19970109	AU 1993-50819	19930825
AU 9350819	A1	19940315		
RU 2130016	C1	19990510	RU 1995-106823	19930825
NO 9500670	A	19950222	NO 1995-670	19950222
FI 9500841	A	19950223	FI 1995-841	19950223
PRIORITY APPL. INFO.:			US 1992-935490	A2 19920825
OTHER SOURCE(S):			WO 1993-US7815	W 19930825
GI				



AB The title compds. R33(R34)X1C(:Y1)(CH2)tc(R31)(R32)C(R30)(R1)C(:Y)N(R6)C(R2)HC(OH)HCH2N(R3)S(O)NR4 [R1 = H, CH2SO2NH2, CO2Me, CONHMe, CONMe2, etc.; R2 = alkyl, aryl, cycloalkyl, (un)substituted cycloalkylalkyl and arylalkyl; R3 = H, alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl, etc.; R4 = alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl etc.; R6 = H, alkyl; R30-R32 = R1; R1R30R31 = cycloalkyl; R1R30R32C = cycloalkyl; R33, R34 = H, R3; R33R34X1 = cycloalkyl, aryl, heterocyclyl, etc.; X1 = O, N, CR17; R17 = H, alkyl; Y, Y1 = O, S, NR15; R15 = H, R3; t = 0, 1; x = 0-2], useful as HIV

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
65.40	226.94

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-17.52	-17.52

CA SUBSCRIBER PRICE

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STRUCTURE FILE UPDATES: 11 AUG 2005 HIGHEST RN 859751-76-1
DICTIONARY FILE UPDATES: 11 AUG 2005 HIGHEST RN 859751-76-1

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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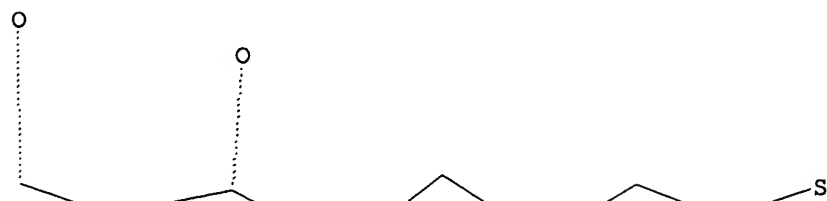
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 chain bonds :
 1-2 1-3 3-4 4-5 4-12 5-6 6-7 7-8 7-9 9-10 10-11
 exact/norm bonds :
 1-2 1-3 4-12 5-6 6-7 7-8 7-9 9-10 10-11
 exact bonds :
 3-4 4-5

Match level :
 1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
 10:CLASS 11:CLASS 12:CLASS

L5 STRUCTURE UPLOADED

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 L5 HAS NO ANSWERS
 L5 STR



100.0% PROCESSED 6153 ITERATIONS
SEARCH TIME: 00.00.01

145 ANSWERS

L7 145 SEA SSS FUL L5

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

161.33

388.27

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-17.52

FILE 'CAPLUS' ENTERED AT 14:12:45 ON 12 AUG 2005

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ACCESSION NUMBER: 1995:293723 CAPLUS

DOCUMENT NUMBER: 122:81141

TITLE:

Preparation of heterocyclylarylsulfonamide inhibitors of HIV-aspartyl protease
Tung, Roger D.; Murcko, Mark A.; Bhisetti, Govinda Rao
Vertex Pharmaceuticals Inc., USA
PCT Int. Appl., 291 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

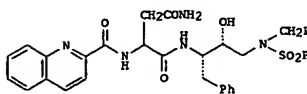
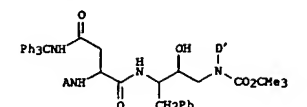
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9405639	A1	19940317	WO 1993-US8458	19930907
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
LT 3302	B	19950626	LT 1993-917	19930901
IL 106927	A1	20010111	IL 1993-106927	19930906
EP 659181	A1	19950628	EP 1993-921428	19930907
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AU 691160	B2	19980514	AU 1993-48520	19930907
AU 9348520	A1	19940329		
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			EP 1993-921428	A3 19930907
			WO 1993-US8458	W 19930907

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 122:81141

GI

(Continued)



AB Title compds. A(B)NHECH(D)CH(OH)CH2N(D')SO2E (A = H, Het, R1-Het, (substituted)R1-C1-6 alkyl, (substituted)R1-C2-6 alkenyl wherein R1 = CO, SO2, COCO, O2C, etc., Het = C5-7 cycloalkyl, C5-7 cycloalkenyl, C6-10 aryl, (substituted) 5-7-membered heterocyclyl; R2 = H, (Ar)-C1-3 alkyl, B = NR2CR3CO, null wherein R3 = H, (substituted)Het or C1-6 alkyl or C2-6 alkenyl or C3-6 cycloalkyl or C5-6 cycloalkenyl; x = 0,1; D, D' = Ar, (substituted)C1-4 alkyl wherein Ar = Ph, (substituted) 3-6-membered carbocyclyl or 5-6-membered heterocyclyl; E = Het-O, Het-Het, (substituted)C1-6 alkyl or C2-6 alkenyl, C3-6 carbocyclyl) useful also against viral infection of HIV-2, HIV-2, or HTLV, are prepared 4,3-(AcNH)FC6H3SO2C1 and syn-1 (A = quinolin-2-ylcarbonyl, D' = Me2CHCH2) (preparation given) in CH2Cl2 was treated with F3CO2H followed by NaHCO3

and 4-FC6H4SO2C1 to give the title compound II which inhibited HIV-1 protease with IC50 of <0.1 nM.

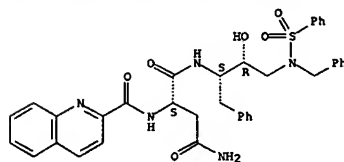
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160333-45-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of an HIV-1 protease inhibitor)

RN 160230-05-7 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[[[2-(acetylamino)-4-methyl-5-thiazolyl]sulfonyl](phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)-(9CI) (CA INDEX NAME)

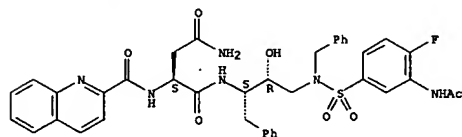
Absolute stereochemistry.

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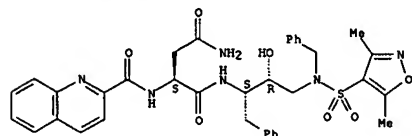
RN 160230-06-8 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[[[3-(acetylamino)-4-fluorophenyl]sulfonyl](phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 160230-07-9 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[[[3,5-dimethyl-4-isoxazolyl]sulfonyl](phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)-(9CI) (CA INDEX NAME)

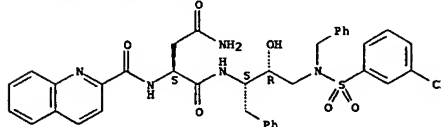
Absolute stereochemistry.



RN 160230-08-0 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-1-(phenylmethyl)-3-[(phenylmethyl)[(trifluoromethyl)phenyl]sulfonyl]amino]propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)-(9CI) (CA INDEX NAME)

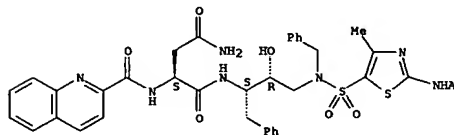
Absolute stereochemistry.

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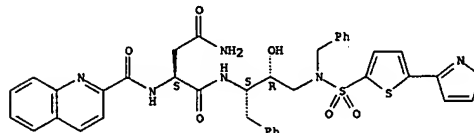
RN 160230-09-1 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[[[2-(acetylamino)-4-methyl-5-thiazolyl]sulfonyl](phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



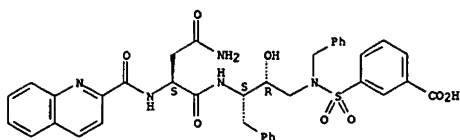
RN 160230-10-4 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[[[5-(3-isoxazolyl)-2-thienyl]sulfonyl](phenylmethyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



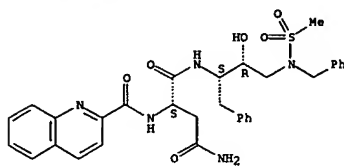
RN 160230-11-5 CAPLUS
CN Benzoic acid, 3-[[[(2R,3S)-3-[[[(2S)-4-amino-1,4-dioxo-2-[(2-quinolinylcarbonyl)amino]butyl]amino]butyl]amino]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



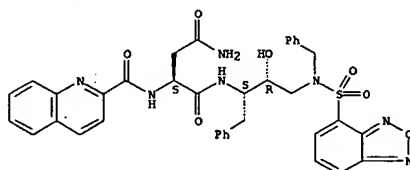
RN 160230-12-6 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(methylsulfonyl)(phenylmethyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



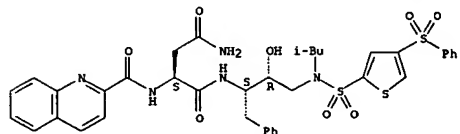
RN 160230-13-7 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(2,1,3-benzoxadiazol-4-ylsulfonyl)(phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



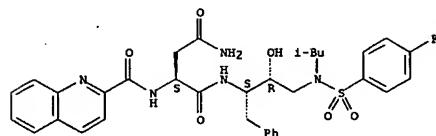
RN 160230-14-8 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(3-aminosulfonyl)phenylsulfonyl](phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



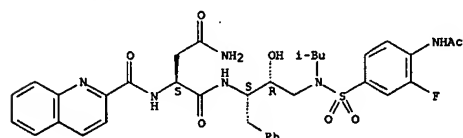
RN 160230-18-2 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(4-fluorophenyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



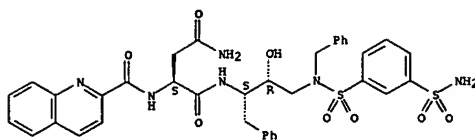
RN 160230-19-3 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(4-(acetylamino)-3-fluorophenyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



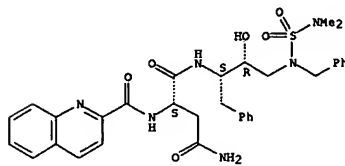
RN 160230-20-6 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(3-(acetylamino)-4-fluorophenyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



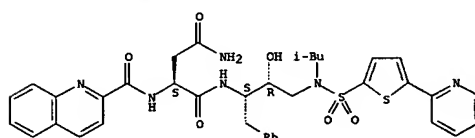
RN 160230-15-9 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(dimethylamino)sulfonyl](phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



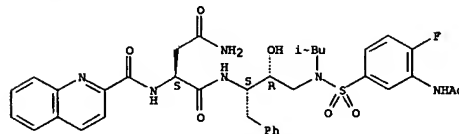
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CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[5-(2-pyridinyl)-2-thienylsulfonyl]amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



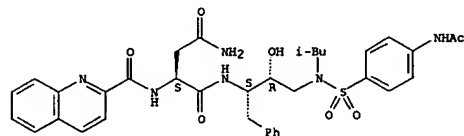
RN 160230-17-1 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[4-(phenylsulfonyl)-2-thienylsulfonyl]amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



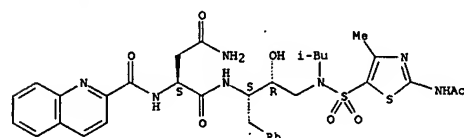
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CN Butanediamide, N1-[(1S,2R)-3-[(4-(acetylamino)phenyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



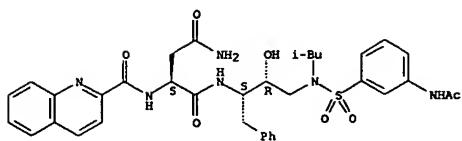
RN 160230-22-8 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(4-(acetylamino)-4-methyl-5-thiazolyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 160230-23-9 CAPLUS
CN Butanediamide, N1-[(1S,2R)-3-[(3-(acetylamino)phenyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

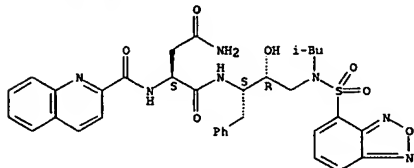
Absolute stereochemistry.



RN 160230-24-0 CAPLUS

CN Butanediamide, N1-[(1S,2R)-3-[(2,1,3-benzoxadiazol-4-ylsulfonyl)(2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)-(9CI) (CA INDEX NAME)

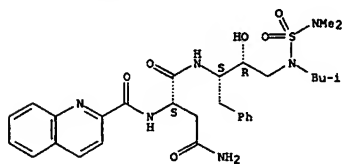
Absolute stereochemistry.



RN 160230-25-1 CAPLUS

CN Butanediamide, N1-[(1S,2R)-3-[(dimethylamino)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)-(9CI) (CA INDEX NAME)

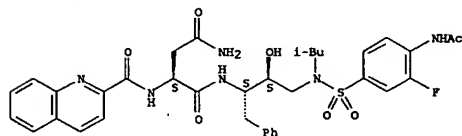
Absolute stereochemistry.



RN 160230-50-2 CAPLUS

CN Butanediamide, N-[(1S,2R)-3-[[4-(acetylamino)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-, (9CI) (CA INDEX NAME)

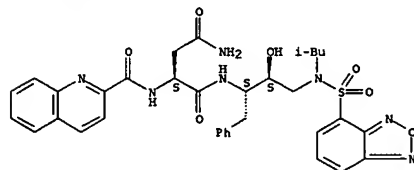
Absolute stereochemistry.



RN 160333-43-7 CAPLUS

CN Butanediamide, N1-[(1S,2S)-3-[(2,1,3-benzoxadiazol-4-ylsulfonyl)(2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)-(9CI) (CA INDEX NAME)

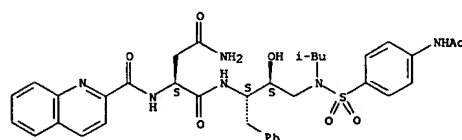
Absolute stereochemistry.



RN 160333-44-8 CAPLUS

CN Butanediamide, N1-[(1S,2S)-3-[[4-(acetylamino)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)-(9CI) (CA INDEX NAME)

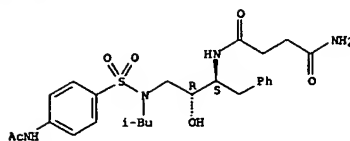
Absolute stereochemistry.



RN 160333-45-9 CAPLUS

CN Butanediamide, N1-[(1S,2S)-3-[[3-(acetylamino)-4-fluorophenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)-(9CI) (CA INDEX NAME)

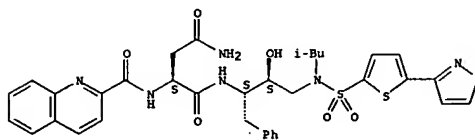
Absolute stereochemistry.



RN 160231-93-6 CAPLUS

CN Butanediamide, N1-[(1S,2S)-2-hydroxy-3-[[[5-(3-isoxazolyl)-2-thienyl]sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)-(9CI) (CA INDEX NAME)

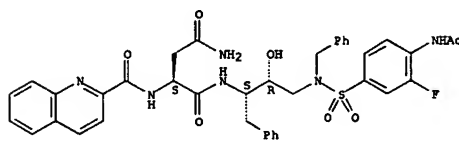
Absolute stereochemistry.



RN 160231-96-9 CAPLUS

CN Butanediamide, N1-[(1S,2R)-3-[[4-(acetylamino)-3-fluorophenyl]sulfonyl](phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)-(9CI) (CA INDEX NAME)

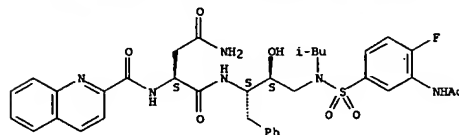
Absolute stereochemistry.



RN 160333-42-6 CAPLUS

CN Butanediamide, N1-[(1S,2S)-3-[[4-(acetylamino)-3-fluorophenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)-(9CI) (CA INDEX NAME)

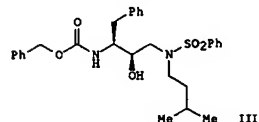
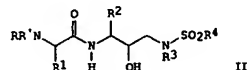
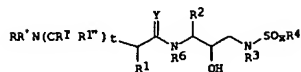
Absolute stereochemistry.



L8 ANSWER 25 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1994:701324 CAPLUS
 DOCUMENT NUMBER: 121:301324
 TITLE: Preparation of hydroxyethylamino sulfonamides useful as retroviral protease inhibitors
 INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Gutman, Daniel; Decrescenzo, Gary A.; Freskos, John N.
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Monsanto Co.
 SOURCE: PCT Int. Appl., 198 pp.
 CODEN: P10X02
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9404492	A1	19940303	WO 1993-057814	19930824
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MV, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, HL, HR, NE, SN, TD, TG				
EP 656887	A1	19950614	EP 1993-923714	19930824
EP 656887	B1	19981028		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 08501288	T2	19960213	JP 1994-506530	19930824
JP 3657002	B2	20050608		
AU 680635	B2	19970807	AU 1994-53474	19930824
AU 9453474	A1	19940315		
EP 810209	A2	19971203	EP 1997-113434	19930824
EP 810209	A3	19981202		
EP 810209	B1	20020605		
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AT 172717	E	19981115	AT 1993-923714	19930824
ES 2123065	T3	19990101	ES 1993-923714	19930824
RU 2173680	C2	20010920	RU 1995-106624	19930824
AT 218541	E	20020615	AT 1997-113434	19930824
PT 810209	T	20020930	PT 1997-113434	19930824
ES 2177698	T3	20021216	ES 1997-113434	19930824
US 6060476	A	20000509	US 1994-204827	19940302
US 5968942	A	19991019	US 1994-294468	19940823
NO 9505533	A	19950213	NO 1995-533	19950213
FI 9506650	A	19950214	FI 1995-650	19950214
FI 112471	B1	20031215		
US 6455581	B1	20020924	US 1995-451090	19950525
US 6046190	A	20000404	US 1996-586866	19960124
NO 9803099	A	19950213	NO 1998-3099	19980703
NO 307047	B1	20000131		
US 6248775	B1	20010619	US 1999-288080	19990408
US 6500832	B1	20021231	US 2000-525161	20000314
US 2002052399	A1	20020502	US 2001-798255	20010305
US 6417387	B2	20020709		
FI 2001002317	A	20011127	FI 2001-2317	20011127
US 2003191319	A1	20031009	US 2002-157019	20020530
US 6646010	B2	20031111		
US 2004044047	A1	20040304	US 2002-199481	20020722
US 6846954	B2	20050125		
US 6924286	B1	20050802	US 2003-633376	20030804
US 2004229922	A1	20041118	US 2004-812343	20040330

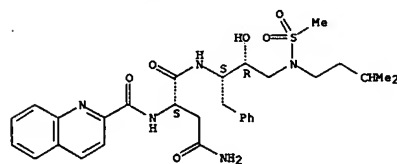
L8 ANSWER 25 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 PRIORITY APPLN. INFO.: US 1992-934984 A2 19920825
 EP 1993-923714 A3 19930824
 US 1993-110911 A2 19930824
 WO 1993-057814 W 19930824
 US 1994-204827 B2 19940302
 US 1994-204872 B2 19940302
 US 1994-294468 A1 19940823
 WO 1994-059139 W 19940823
 US 1995-451090 A3 19950525
 US 1999-288080 A1 19990408
 US 2001-798255 A1 20010305
 US 2002-157019 A1 20020530
 US 2002-199481 A3 20020722
 OTHER SOURCE(S): MARPAT 121:301324
 GI



AB Title compds. [I and II; R = H, alkoxycarbonyl, aralkoxycarbonyl, alkylcarbonyl, cycloalkylcarbonyl, heterocyclylcarbonyl, heteroaryloxyalkyl, hydroxyalkyl, aryl, alkyl, alkenyl, alkynyl, substituted aminocarbonyl, etc.; R' = H, R3, R''SO2; RR'N = heterocyclyl, heteroaryl; R1 = H, CH2SO2NH2, CH2CO2Me, CO2Me, CONH2, CH2SH, alkyl, haloalkyl, alkenyl, alkynyl, cycloalkyl, amino acid side chains, etc.; R1', R1'' = H, R1, 1 of R1', R1'' together with R1 form a cycloalkyl radical; R2 = (substituted) alkyl, aryl, cycloalkyl, cycloalkylalkyl, aralkyl; R3 = H, alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxycarbonyl, cycloalkyl, heterocycloalkyl, heteroaryl, aryl, aralkyl, heteroalkyl, (substituted) aminoalkyl, etc.; R4 = R3, except H; R6 = H, alkyl; x = 0-2; t = 0, 1; Y = O, S, imino], were prepared Thus, title compound (III, solution phase preparation given) inhibited HIV protease with IC50 = 16 nM.
 IT 159005-89-7P 159005-90-0P 159005-91-1P
 159005-92-2P 159005-93-5P 159006-21-0P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological

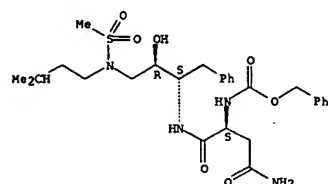
L8 ANSWER 25 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 study); PREP (Preparation)
 (prepn. of, as HIV protease inhibitor)
 RN 159005-89-7 CAPLUS
 CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (methylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159005-90-0 CAPLUS
 CN 2-Thia-3,7,10-triazundecan-11-oic acid, 9-(2-amino-2-oxoethyl)-5-hydroxy-3-(3-methylbutyl)-8-oxo-6-(phenylmethyl)-, phenylmethyl ester, 2,2-dioxide, (5R,6S,9S)- (9CI) (CA INDEX NAME)

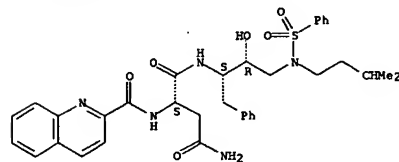
Absolute stereochemistry.



RN 159005-91-1 CAPLUS
 CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

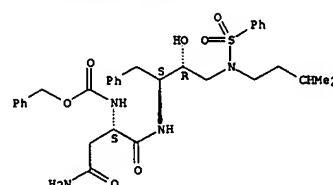
Absolute stereochemistry.

L8 ANSWER 25 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



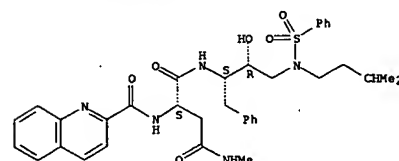
RN 159005-92-2 CAPLUS
 CN Carbanic acid, [(1S)-3-amino-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-3-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



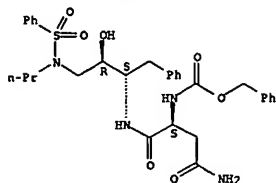
RN 159005-95-5 CAPLUS
 CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159006-21-0 CAPLUS
 CN Carbanic acid, [(1S)-3-amino-1-[[[(1S,2R)-2-hydroxy-1-(phenylmethyl)-3-[(phenylsulfonyl)propylamino]propyl]amino]carbonyl]-3-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



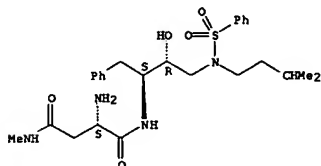
IT 159006-49-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as HIV protease inhibitor intermediate)

RN 159006-49-2 CAPLUS

CN Butanediamide, 2-amino-N1-[(2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl)-N4-methyl-, monohydrochloride, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

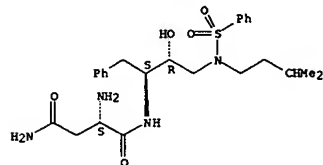
IT 159005-90-0P 159005-92-2P 159006-05-0P

159006-06-1P 159006-22-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for HIV protease inhibitor)

RN 159005-90-0 CAPLUS

CN 2-Thia-3,7,10-triazundecan-11-oic acid, 9-(2-amino-2-oxoethyl)-5-hydroxy-3-(3-methylbutyl)-8-oxo-6-(phenylmethyl)-, phenylmethyl ester, 2,2-dioxide, (5R,6S,9S)- (9CI) (CA INDEX NAME)

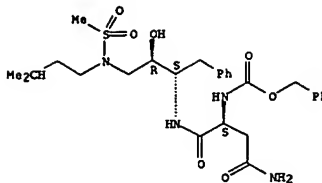
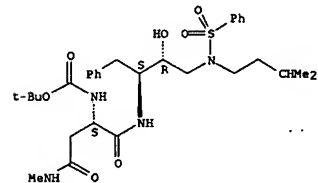
Absolute stereochemistry.



RN 159006-22-1 CAPLUS

CN Carbanic acid, [(1S)-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-3-(methylamino)-3-oxopropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

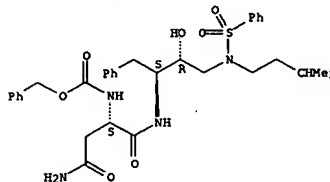
Absolute stereochemistry.



RN 159005-92-2 CAPLUS

CN Carbanic acid, [(1S)-3-amino-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-3-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

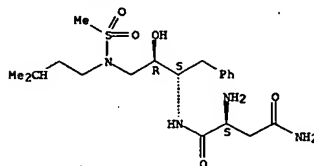
Absolute stereochemistry.



RN 159006-05-0 CAPLUS

CN Butanediamide, 2-amino-N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(methylsulfonyl)amino]-1-(phenylmethyl)propyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159006-06-1 CAPLUS

CN Butanediamide, 2-amino-N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ACCESSION NUMBER: 1994:579258 CAPLUS

DOCUMENT NUMBER: 121:179258

TITLE:
N-(alkanoylamino-2-hydroxypropyl)sulfonamides useful as HIV protease inhibitors
Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel; Decrescenzo, Gary A.; Freskos, John N.

PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Monsanto Co.

SOURCE: PCT Int. Appl., 103 pp.

CODEN: PIXXKD

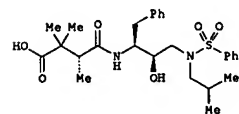
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

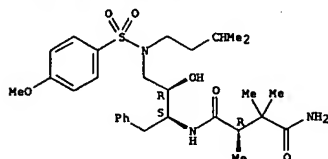
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9404491	A1	19940303	WO 1993-US7815	19930825
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
EP 656886	A1	19950614	EP 1993-920213	19930824
EP 656886	B1	19970625		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 08500824	T2	19960130	JP 1993-506531	19930824
AT 154800	E	19970715	AT 1993-920213	19930824
ES 2103489	T3	19970916	ES 1993-920213	19930824
AU 674702	B2	19970109	AU 1993-50819	19930825
AU 9350819	A1	19940315		
RU 2130016	C1	19990510	RU 1995-106823	19930825
NO 9500670	A	19950222	NO 1995-670	19950222
FI 9500841	A	19950223	FI 1995-841	19950223
PRIORITY APPL. INFO.:				
US 1992-935490 A2 19920825				
WO 1993-US7815 W 19930825				
OTHER SOURCE(S):				
GI MARPAT 121:179258				



AB The title compds. R33(R34)X1C(:Y1)(CH2)tC(R31)(R32)C(R30)(R1)C(:Y)N(R6)C(R2)HC(OH)HCH2N(R3)S(O)NR4 (R1 = H, CH2SO2NH2, CO2Me, CONHMe, CONMe2, etc.; R2 = alkyl, aryl, cycloalkyl, (un)substituted cycloalkylalkyl and arylalkyl, R3 = H, alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl, etc.; R4 = alkyl, haloalkyl alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl etc.; R6 = H, alkyl; R30-R32 = R1; R1R30R31 = cycloalkyl; R1R30R32 = cycloalkyl; R33, R34 = H, R3; R33R34X1

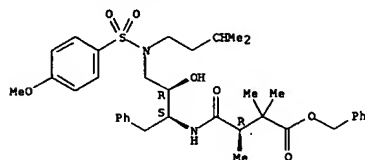
L8 ANSWER 26 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 = cycloalkyl, aryl, heterocyclyl, etc.; X1 = O, N, CR17; R17 = H, alkyl;
 Y, Y1 = O, S, NR15; R15 = H, R3; t = 0, 1; x = 0-2), useful as HIV
 protease inhibitors for the treatment of AIDS, are prepd. Thus,
 sulfonamide I was prepd. and demonstrated IC50 against HIV protease of 1
 nmol.
 IT 157446-05-4 157446-06-5 157446-07-6
 157446-08-7 157446-09-8 157474-44-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (HIV protease inhibitor)
 RN 157446-05-4 CAPLUS
 CN Butanediamide, N4-[(1S,2R)-2-hydroxy-3-[[4-methoxyphenyl)sulfonyl](3-
 methylbutyl)amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



RN 157446-06-5 CAPLUS
 CN Butanoic acid, 4-[[[2-hydroxy-3-[[4-methoxyphenyl)sulfonyl](3-
 methylbutyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-,
 phenylmethyl ester, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

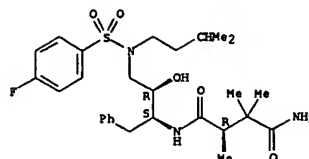
Absolute stereochemistry.



RN 157446-07-6 CAPLUS
 CN Butanediamide, N4-[(1S,2R)-3-[[4-fluorophenyl)sulfonyl](3-
 methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2,2,3-trimethyl-,
 (3R)- (9CI) (CA INDEX NAME)

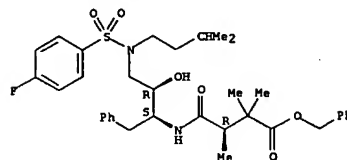
Absolute stereochemistry.

L8 ANSWER 26 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



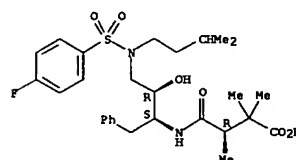
RN 157446-08-7 CAPLUS
 CN Butanoic acid, 4-[[[3-[[4-fluorophenyl)sulfonyl](3-methylbutyl)amino]-2-
 hydroxy-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl
 ester, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 157446-09-8 CAPLUS
 CN Butanoic acid, 4-[[[3-[[4-fluorophenyl)sulfonyl](3-methylbutyl)amino]-2-
 hydroxy-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-,
 [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

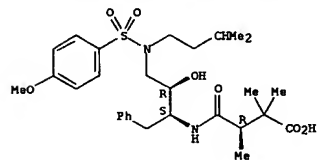
Absolute stereochemistry.



RN 157474-44-7 CAPLUS
 CN Butanoic acid, 4-[[[2-hydroxy-3-[[4-methoxyphenyl)sulfonyl](3-
 methylbutyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-,
 [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

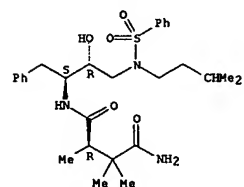
Absolute stereochemistry.

L8 ANSWER 26 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



IT 157445-96-0P 157445-97-1P 157445-98-2P
 157445-99-3P 157446-00-9P 157446-01-0P
 157446-02-1P 157446-03-2P 157446-04-3P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of, as HIV protease inhibitor)
 RN 157445-96-0 CAPLUS
 CN Butanediamide, N4-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)ami-
 no]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)- (9CI) (CA INDEX NAME)

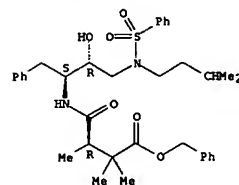
Absolute stereochemistry.



RN 157445-97-1 CAPLUS
 CN Butanoic acid, 4-[[[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-
 (phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester,
 [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

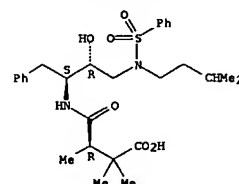
Absolute stereochemistry.

L8 ANSWER 26 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



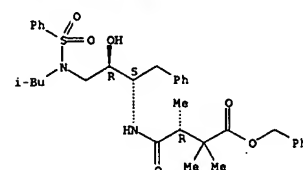
RN 157445-98-2 CAPLUS
 CN Butanoic acid, 4-[[[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)ami-
 no]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, (3R)- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.



RN 157445-99-3 CAPLUS
 CN Butanoic acid, 4-[[[2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-
 (phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester,
 [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

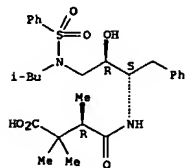
Absolute stereochemistry.



RN 157446-00-9 CAPLUS

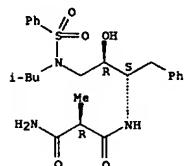
L8 ANSWER 26 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 CN Butanoic acid, 4-[[[2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(S*),2S*]]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



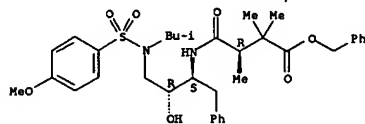
RN 157446-01-0 CAPLUS
 CN Propanediamide, N-[[[2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-, [1S-[1R*(S*),2S*]]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 157446-02-1 CAPLUS
 CN Butanoic acid, 4-[[[2-hydroxy-3-[[[4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(S*),2S*]]-(9CI) (CA INDEX NAME)

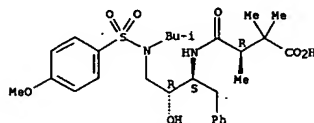
Absolute stereochemistry.



RN 157446-03-2 CAPLUS

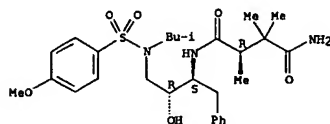
L8 ANSWER 26 OF 26 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 CN Butanoic acid, 4-[[[2-hydroxy-3-[[[4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(S*),2S*]]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 157446-04-3 CAPLUS
 CN Butanediamide, N4-[(1S,2R)-2-hydroxy-3-[[[4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

17.07

405.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-2.19

-19.71

FILE 'REGISTRY' ENTERED AT 14:15:30 ON 12 AUG 2005

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 AUG 2005 HIGHEST RN 859751-76-1

DICTIONARY FILE UPDATES: 11 AUG 2005 HIGHEST RN 859751-76-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

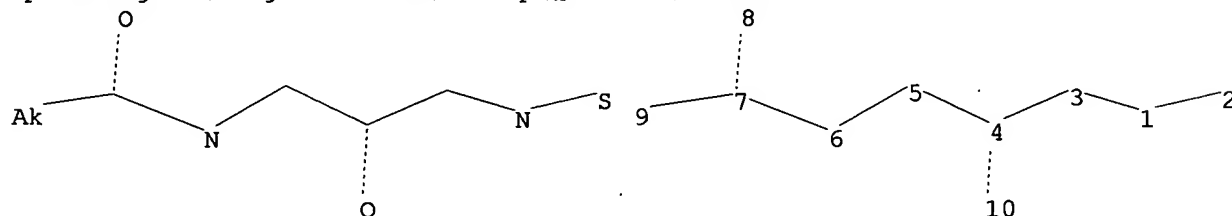
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10784916\10784916h.str



chain nodes :

1 2 3 4 5 6 7 8 9 10
 chain bonds :
 1-2 1-3 3-4 4-5 4-10 5-6 6-7 7-8 7-9
 exact/norm bonds :
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 exact bonds :
 3-4 4-5

Match level :

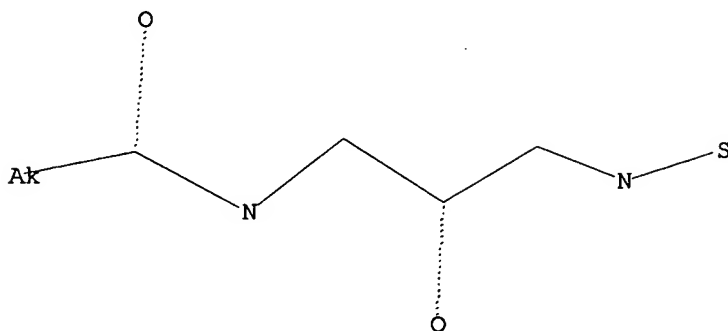
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 10:CLASS

L9 STRUCTURE UPLOADED

=> d

L9 HAS NO ANSWERS

L9 STR



Structure attributes must be viewed using STN Express query preparation.

=> s L9

SAMPLE SEARCH INITIATED 14:15:52 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 289 TO ITERATE

100.0% PROCESSED 289 ITERATIONS 50 ANSWERS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 4761 TO 6799
 PROJECTED ANSWERS: 1265 TO 2415

L10 50 SEA SSS SAM L9

=> s L9 full

FULL SEARCH INITIATED 14:15:58 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 6153 TO ITERATE

100.0% PROCESSED 6153 ITERATIONS 1960 ANSWERS

SEARCH TIME: 00.00.01

L11 1960 SEA SSS FUL L9

=> fil caplus

COST IN U.S. DOLLARS

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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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CA SUBSCRIBER PRICE

FILE 'CAPLUS' ENTERED AT 14:16:02 ON 12 AUG 2005

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FILE COVERS 1907 - 12 Aug 2005 VOL 143 ISS 8

FILE LAST UPDATED: 11 Aug 2005 (20050811/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s L11

L12 126 L11

=> d 100-126 ibib abs hitstr

ACCESSION NUMBER: 1996:667025 CAPLUS

DOCUMENT NUMBER: 125:328302

TITLE: Preparation of N-[[[sulfonylalkenyl]amino]hydroxyalkyl]sulfonamides as retroviral protease inhibitors

INVENTOR(S): Getman, Daniel P.; Decrescenzo, Gary A.; Freskos, John N.; Vazquez, Michael L.; Sikorski, James A.; Devadas, Balakrishna; Nagarajan, Srinivasan; McDonald, Joseph J. G.D. Seale and Co., USA

PCT Int. Appl., 171 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

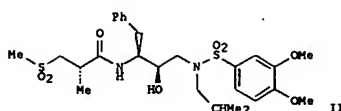
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WO 9628418	A1	19960919	WO 1996-US2682	19960307
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RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CH, GA				
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AU 9666951	A1	19961002	AU 1996-66951	19960307
AU 711098	B2	19991007		
EP 813519	A1	19971229	EP 1996-911229	19960307
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JP 11503414	T2	19990326	JP 1996-527646	19960307
AT 201014	E	20010515	AT 1996-911229	19960307
SK 282893	B6	20030109	SK 1997-1223	19960307
PL 186059	B1	20030930	PL 1996-322169	19960307
EX 4340	B1	20040816	EE 1997-199	19960307
NO 9704146	A	19971107	NO 1997-4146	19970909
NO 310353	B1	20010625		
US 5985870	A	19991116	US 1997-913069	19971219
US 6380189	B1	20020430	US 2000-672449	20000929
GR 3036254	T3	20011031	GR 2001-401103	20010724
US 2003191166	A1	20031009	US 2002-82123	20020226
US 6667307	B2	20031223		
US 2004147758	A1	20040729	US 2003-677729	20031003

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): HARPAT 125:328302

GI

(Continued)

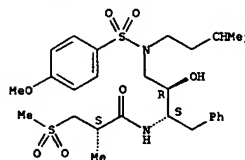


AB R5SO₂(CH₂)_nCH(R₁)CONHCH(R₂)CH(OH)CH₂NR₃SO₂R₄ [1; R₁ = H, (hydroxy)alkyl, CH₂CONH₂, etc.; R₂ = (ar)alkyl, alkylthioalkyl, etc.; R₃ = (cyclo)alkyl, cycloalkylmethyl; R₄ = heterocyclyl, heteroaryl, etc.; R₅ = (ar)alkyl, alkyl, alkenyl; n,n = 0-2] were prepared. Thus, (2S,3S)-N-benzoyloxycarbonyl-3-amino-1,2-epoxy-4-phenylbutane (preparation given) was condensed with Me₂CHCH₂NH₂ and the product amidated by 3,4-(MeO)C₆H₃SO₂Cl to give, after deprotection and (S)-MeSO₂CH₂CHMeCO₂H amidation, title compound II. Data for activity of selected I in an in vitro HIV inhibition assay were given.

IT 157566-76-2P 157566-81-9P 157566-82-0P
157566-83-1P 157566-85-3P 157566-86-4P
174303-66-3P 183004-72-0P 183004-73-1P
183004-74-2P 183004-75-3P 183004-76-4P
183004-77-5P 183004-78-6P 183182-29-8P
RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-[[[sulfonylalkenyl]amino]hydroxyalkyl]sulfonamides as retroviral protease inhibitors)

RN 157566-76-2 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[[[(4-methoxyphenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

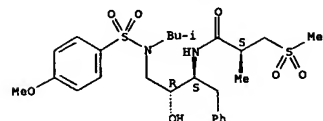
Absolute stereochemistry.



RN 157566-81-9 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[[[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

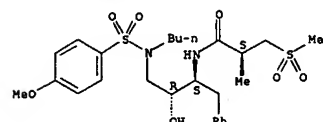
Absolute stereochemistry.

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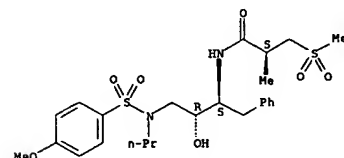
RN 157566-82-0 CAPLUS
CN Propanamide, N-[(1S,2R)-3-[butyl[(4-methoxyphenyl)sulfonyl]amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 157566-83-1 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[[[(4-methoxyphenyl)sulfonyl]propylamino]-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

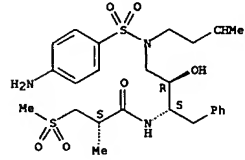
Absolute stereochemistry.



RN 157566-85-3 CAPLUS
CN Propanamide, N-[(1S,2R)-3-[[[(4-aminophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

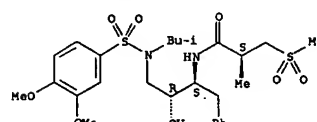
Absolute stereochemistry.

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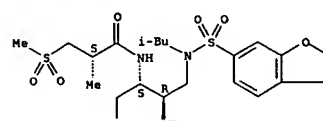
RN 157566-86-4 CAPLUS
CN Propanamide, N-[(1S,2R)-3-[[[(3,4-dimethoxyphenyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



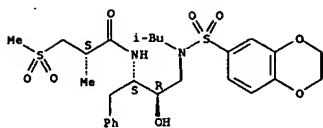
RN 174303-66-3 CAPLUS
CN Propanamide, N-[(1S,2R)-3-[[[(1,3-benzodioxol-5-yl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



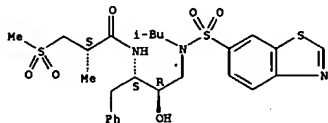
RN 183004-72-0 CAPLUS
CN Propanamide, N-[(1S,2R)-3-[[[(2,3-dihydro-1,4-benzodioxin-6-yl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



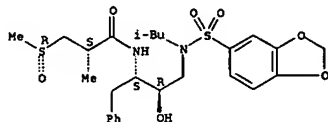
RN 183004-73-1 CAPLUS
CN Propanamide, N-[(1S,2R)-3-[(6-benzothiazolylsulfonyl)(2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



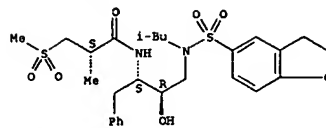
RN 183004-74-2 CAPLUS
CN Propanamide, N-[(1S,2R)-3-[(1,3-benzodioxol-5-ylsulfonyl)(2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-[(R)-methylsulfinyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



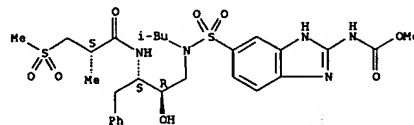
RN 183004-75-3 CAPLUS
CN Propanamide, N-[(1S,2R)-3-[(2,3-dihydro-5-benzofuranyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



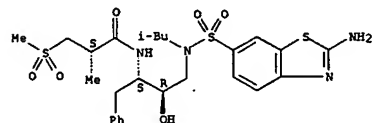
RN 183004-76-4 CAPLUS
CN Carbamic acid, [5-[[[(2R,3S)-2-hydroxy-3-[(2S)-2-methyl-3-(methylsulfonyl)-1-oxopropyl]amino]-4-phenylbutyl](2-methylpropyl)amino]sulfonyl]-1H-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



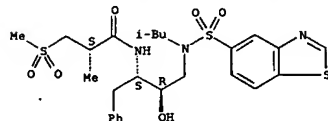
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CN Propanamide, N-[(1S,2R)-3-[(2-amino-6-benzothiazolyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



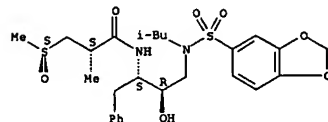
RN 183004-78-6 CAPLUS
CN Propanamide, N-[(1S,2R)-3-[(5-benzothiazolyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



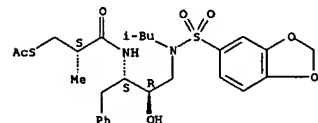
RN 183182-29-8 CAPLUS
CN Propanamide, N-[(1S,2R)-3-[(1,3-benzodioxol-5-ylsulfonyl)(2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-[(S)-methylsulfinyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



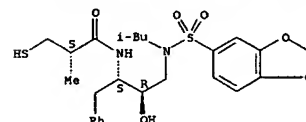
IT 183004-99-1P 183005-00-7P 183005-01-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of N-[(sulfonylalkenyl)amino]hydroxyalkyl)sulfonamides as retroviral protease inhibitors)
RN 183004-99-1 CAPLUS
CN Ethanethioic acid, S-[(2S)-3-[(1S,2R)-3-[(1,3-benzodioxol-5-ylsulfonyl)(2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-2-methyl-3-oxopropyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



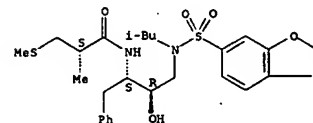
RN 183005-00-7 CAPLUS
CN Propanamide, N-[(1S,2R)-3-[(1,3-benzodioxol-5-ylsulfonyl)(2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-3-mercapto-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



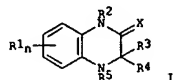
RN 183005-01-8 CAPLUS
CN Propanamide, N-[(1S,2R)-3-[(1,3-benzodioxol-5-ylsulfonyl)(2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylthio)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L12 ANSWER 101 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1996:601709 CAPLUS
 DOCUMENT NUMBER: 125:238651
 TITLE: Use of quinoxalines and protease inhibitors in a composition for the treatment of AIDS and/or HIV infections
 INVENTOR(S): Paessens, Arnold; Blunck, Martin; Riess, Guenther; Klein, Joerg-Peter; Roesner, Manfred
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Eur. Pat. Appl., 24 pp.
 CODEN: EPXOXD
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

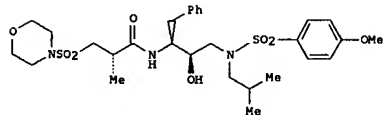
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DE 19506742	A1	19960829	DE 1995-19506742	19950227
AU 9645615	A1	19960905	AU 1996-45615	19960220
AU 710159	B2	19990916		
CA 2170222	AA	19960829	CA 1996-2170222	19960223
FI 9600850	A	19960829	FI 1996-850	19960223
JP 08245392	A2	19960924	JP 1996-60286	19960223
IL 117247	A1	20001031	IL 1996-117247	19960223
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ZA 9601516	A	19960903	ZA 1996-1516	19960226
BR 9600809	A	19971223	BR 1996-809	19960226
CN 1141196	A	19970129	CN 1996-102709	19960227
PRIORITY APPL. INFO.: MARPAT 125:238651			DE 1995-19506742	A 19950227
OTHER SOURCE(S):				
GI				



AB Combinations of a quinoxaline derivative [I; R1 = halo, OH, NO2, (substituted) amino, N3, CF3, CF3O, C1-8 alkyl, CN, (substituted) Ph, N-heterocyclyl, etc.; R2, R5 = H, OH, C1-6 alkoxy, aryloxy, C1-6 acyloxy, CN, (substituted) amino, (substituted) C1-8 alkyl, (substituted) C2-8 alkenyl, (substituted) C3-8 alkynyl, (substituted) C3-8 cycloalk(en)yl, etc.; R3, R4 = H, (substituted) C1-8 alkyl, (substituted) C2-8 alkenyl, (substituted) C3-8 cycloalk(en)yl, (substituted) aryl, etc.; or R3R4 or R3R5 complete a (substituted) ring; X = O, S, Se, NR2; n = 0-4] and a peptidomimetic protease inhibitor are useful for treatment of HIV infections and AIDS. Thus, I [R1 = 6-MeO, R2 = R3 = H, R4 = (S)-MeSCH2, R5 = i-PrO2C, X = S] (0.7-6 nM) and saquinavir (6-50 nM) synergistically inhibited syncytium formation in HIV-infected human lymphocytes in vitro.
 IT 181703-69-5
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological

L12 ANSWER 102 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1996:572053 CAPLUS
 DOCUMENT NUMBER: 125:222459
 TITLE: Preparation of bis(sulfonamido hydroxyethylamino peptide analogs as retroviral protease inhibitors.
 INVENTOR(S): Frieskos, John N.; Getman, Daniel P.; Talley, John J.; Sikorski, James A.
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA
 SOURCE: PCT Int. Appl., 160 pp.
 CODEN: PFXOXD
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

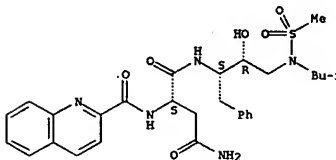
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WO 9622287	A1	19960725	WO 1996-US607	19960118
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RV: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE				
CA 2210889	AA	19960725	CA 1996-2210889	19960118
AU 9647008	A1	19960807	AU 1996-47008	19960118
EP 804428	A1	19971105	EP 1996-902700	19960118
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JP 11500105	T2	19990106	JP 1996-52362	19960118
US 6143747	A	20001107	US 1998-875025	19980226
US 6384036	B1	20020507	US 2000-635896	20000811
US 2003013751	A1	20030116	US 2002-76607	20020219
US 2004063771	A1	20040401	US 2003-417340	20030417
PRIORITY APPL. INFO.: US 1995-376337			A 19950120	
OTHER SOURCE(S): MARPAT 125:222459			WO 1996-US607	W 19960118
GI			US 1998-875025	A1 19980226
			US 2000-635896	A1 20000811
			US 2002-76607	A1 20020219



AB R1OR11NSOW(CR7R8)CHRIC((Y)NR6CHR2CH(OH)CH2NR3SOxR4 [R1 = H, CH2SO2NH2, CH2SO2Me, CO2Me CONH2, alkyl, haloalkyl, heterocycloalkyl, amino acid side chain (derivative), etc.; R2 = halo, NO2, cyano, CF3, (substituted) alkyl, cycloalkyl, cycloalkylalkyl, aryl, heteroaryl, etc.; R3 = alkyl, alkenyl, alkynyl, haloalkyl, hydroxyalkyl, alkoxyalkyl, alkylthioalkyl, alkylsulfinylalkyl, alkylthioalkyl, arylthioalkyl, heteroaryl, etc.; R4 = alkyl, alkenyl, alkynyl, haloalkyl, hydroxyalkyl, alkoxyalkyl, aryl, aralkyl, thioalkyl, heteroaryl, heterocycloalkyl, etc.; R6, R8 = H, alkyl;

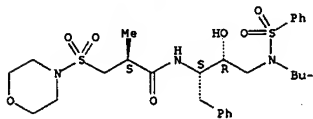
L12 ANSWER 101 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (use of quinoxalines and protease inhibitors for treatment of AIDS and HIV infections)
 RN 181703-69-5 CAPLUS
 CN Butanediolamide, N1-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)(methylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



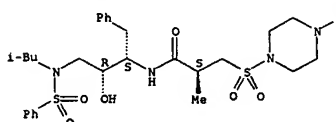
L12 ANSWER 102 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 R7 = CO2H, amidino, R1; R1R7 = atoms to form a cycloalkyl or heterocyclyl ring; R10, R11 = H, alkyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl, heterocycloalkyl, aryl, aralkyl, heteroaryl, thioalkyl, alkylthioalkyl, etc.; R10R11N = heterocyclo, aralkylheterocyclo, heteroaryl, etc.; n, w = 0-2; t = 0-6; Y = O, S, NH; were prepd. Thus, 3-(4-morpholinylsulfonyl)-2(R)-methylpropionic acid (prepn. given) in DMF was treated with hydroxybenzotriazole, EDC, and 3(S)-amino-1-[N-(2-methylpropyl)-N-(4-methoxyphenylsulfonyl)amino]-4-phenyl-2(R)-butanol (prepn. given) to give title compd. (I). I inhibited HIV protease with IC50 = 10 nM.
 IT 181123-47-7P 181123-48-8P 181123-49-9P
 181123-50-2P 181123-51-3P 181123-52-4P
 181123-55-7P 181123-57-9P 181123-59-1P
 181123-61-5P 181123-63-9P 181123-68-2P
 181123-71-7P 181123-74-0P 181123-77-3P
 181123-80-8P 181123-83-1P 181124-55-0P
 181124-56-1P 181124-57-2P 181124-58-3P
 181124-59-4P 181124-60-7P 181124-61-8P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of bis(sulfonamido hydroxyethylamino peptide analogs as retroviral protease inhibitors)
 RN 181123-47-7 CAPLUS
 CN Propanamide, N-[2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-[(4-morpholinylsulfonyl)-, [1S-[1R*(R'),2S']]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



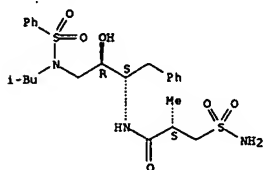
RN 181123-48-8 CAPLUS
 CN Propanamide, N-[2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-[(4-methyl-1-piperazinylsulfonyl)-, [1S-[1R*(R'),2S']]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



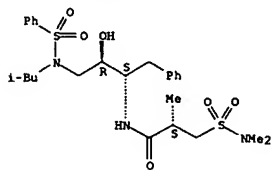
RN 181123-49-9 CAPLUS
 CN Propanamide, 3-(aminosulfonyl)-N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-,

Absolute stereochemistry.



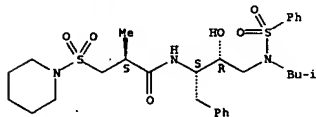
RN 181123-50-2 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-1-(phenylmethyl)propyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



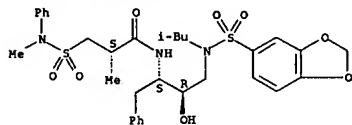
RN 181123-51-3 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-1-(phenylmethyl)propyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



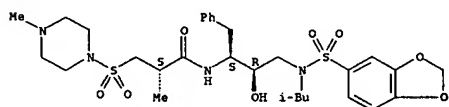
RN 181123-52-4 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-1-(phenylmethyl)propyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



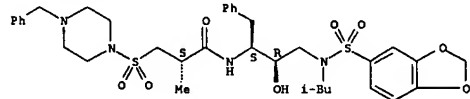
RN 181123-61-5 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-1-(phenylmethyl)propyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 181123-65-9 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-1-(phenylmethyl)propyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

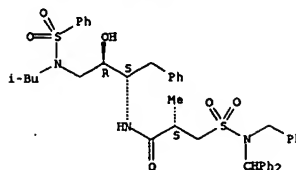
Absolute stereochemistry.



RN 181123-68-2 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-1-(phenylmethyl)propyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

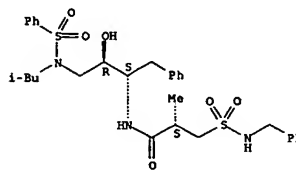
Absolute stereochemistry.

Absolute stereochemistry.



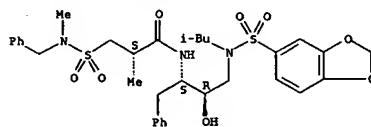
RN 181123-55-7 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-1-(phenylmethyl)propyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



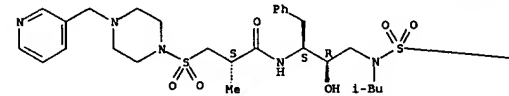
RN 181123-57-9 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-1-(phenylmethyl)propyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

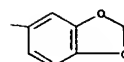


RN 181123-59-1 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-1-(phenylmethyl)propyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

PAGE 1-A



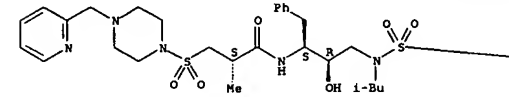
PAGE 1-B



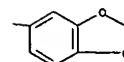
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CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-1-(phenylmethyl)propyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

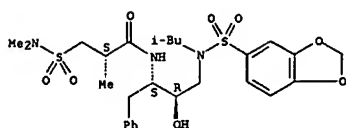


PAGE 1-B



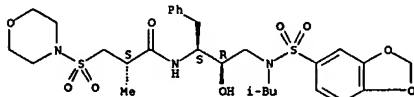
RN 181123-74-0 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-1-(phenylmethyl)propyl]-2-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



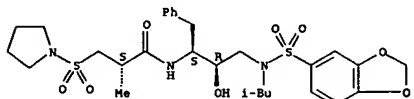
RN 181123-77-3 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(4-morpholinylsulfonyl)-, [1S-[1R*(R*),2S*]]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



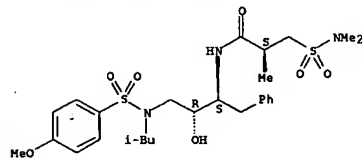
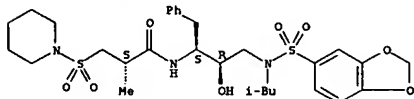
RN 181123-80-8 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(1-pyrrolidinylsulfonyl)-, [1S-[1R*(R*),2S*]]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



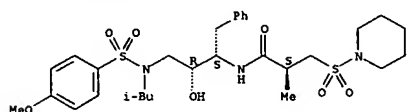
RN 181123-83-1 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(1-piperidinylsulfonyl)-, [1S-[1R*(R*),2S*]]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



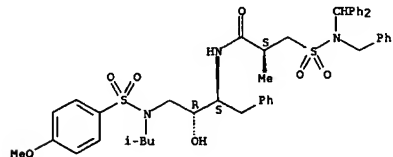
RN 181124-59-4 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(1-piperidinylsulfonyl)-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 181124-60-7 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(1-piperidinylsulfonyl)-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

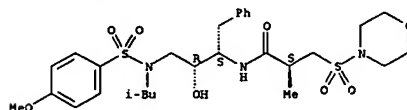


RN 181124-61-8 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-[(phenylmethyl)amino]sulfonyl)-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

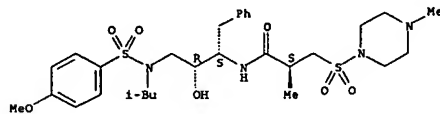
RN 181124-55-0 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(4-morpholinylsulfonyl)-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



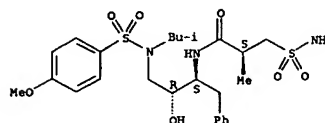
RN 181124-56-1 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-[(4-methyl-1-piperazinyl)sulfonyl]-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



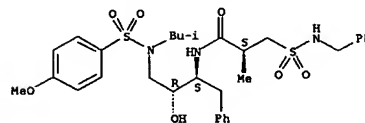
RN 181124-57-2 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-[(4-methyl-1-piperazinyl)sulfonyl]-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 181124-58-3 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-[(4-methyl-1-piperazinyl)sulfonyl]-, (2S)-(9CI) (CA INDEX NAME)

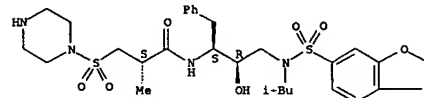
Absolute stereochemistry.



IT 181123-63-7P 181124-49-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of bis(sulfonamido) hydroxyethylamino peptide analogs as retroviral protease inhibitors)

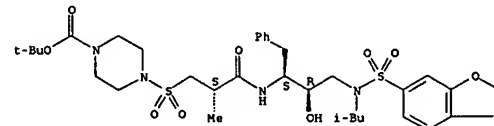
RN 181123-63-7 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(1-piperazinylsulfonyl)-, [1S-[1R*(R*),2S*]]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

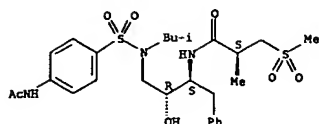


RN 181124-49-2 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[(2S)-3-[(1S,2R)-3-[(1,3-benzodioxol-5-ylsulfonyl](2-methylpropyl)amino)-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-oxopropyl]sulfonyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



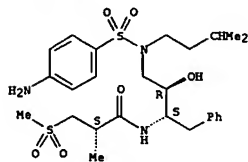
Absolute stereochemistry.



RN 157566-85-3 CAPLUS

CN Propanamide, N-[(1S,2R)-3-[[[4-(aminophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)-(9CI)] (CA INDEX NAME)

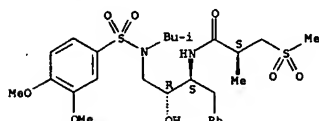
Absolute stereochemistry.



RN 157566-86-4 CAPLUS

CN Propanamide, N-[(1S,2R)-3-[[[3,4-dimethoxyphenyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)-(9CI)] (CA INDEX NAME)

Absolute stereochemistry.



IT 157566-87-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(sulfonylalkanolamino hydroxyethylamino sulfonamides as retroviral protease inhibitors)

RN 157566-87-5 CAPLUS

CN Propanamide, N-[(2-hydroxy-3-[[[4-(hydroxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, [1S-[1R*(R*),2S*]]-(9CI)] (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 104 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:153437 CAPLUS

DOCUMENT NUMBER: 124:220480

TITLE: Retroviral protease inhibitor combinations

INVENTOR(S): Bryant, Martin L.; Potts, Karen E.; Smidt, Mary;

Tucker, Simon P.

PATENT ASSIGNER(S): G.D. Searle and Co., USA

SOURCE: PCT Int. Appl., 64 pp.

CODEN: PIXX02

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9533464	A2	19951214	WO 1995-US6673	19950602
WO 9533464	A3	19960104		
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RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2191948	AA	19951214	CA 1995-2191948	19950602
AU 9526510	A1	19960104	AU 1995-26510	19950602
AU 696299	B2	19980903		
EP 762880	A1	19970319	EP 1995-921428	19950602
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CN 1166786	A	19971203	CN 1995-194464	19950602
HU 76979	A2	19980128	HU 1996-3328	19950602
JP 10505324	T2	19980526	JP 1995-501057	19950602
NZ 287702	A	20000623	NZ 1995-287702	19950602
US 6100277	A	20000808	US 1995-458154	19950602
PL 180070	B1	20001229	PL 1995-317425	19950602
RU 2166317	C2	20010510	RU 1997-100123	19950602
NO 9605136	A	19970120	NO 1996-5136	19961202
FI 9604835	A	19970129	FI 1996-4835	19961203
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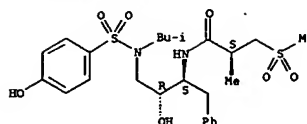
AB A method is disclosed for the treatment of mammalian retrovirus infections, e.g. HIV, using combinations of retroviral protease inhibitors which are effective in preventing the replication of the retroviruses in vitro or in vivo. In particular, the invention provides protease inhibitor compds. used in combination therapy with other protease inhibitor compds. Also disclosed is combination therapy with a combination of protease inhibitors and antiviral agents other than protease inhibitors. Preparation and activity of selected inhibitors is included.

IT 160676-92-6

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(retroviral protease inhibitor combinations, and protease inhibitor preparation)

RN 160676-92-6 CAPLUS

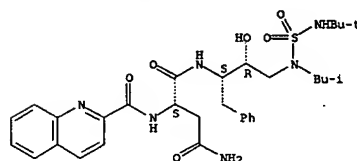
CN Butanediamide, N1-[3-[[[(1,1-dimethylethyl)amino]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-



L12 ANSWER 104 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN

quinolinylcarbonyl)amino]-, [1S-[1R*(R*),2S*]]-(9CI)] (CA INDEX NAME)

Absolute stereochemistry.



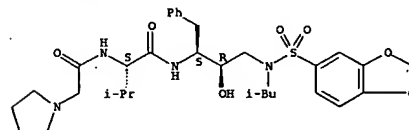
IT 174303-65-2P 174303-66-3P 174303-67-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(retroviral protease inhibitor combinations, and protease inhibitor preparation)

RN 174303-65-2 CAPLUS

CN 1-Pyrrolidineacetamide, N-[(1S)-1-[[[(1S,2R)-3-[(1,3-benzodioxol-5-ylsulfonyl)(2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylpropyl]- (9CI)] (CA INDEX NAME)

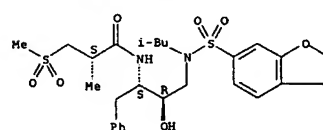
Absolute stereochemistry.



RN 174303-66-3 CAPLUS

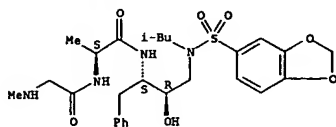
CN Propanamide, N-[(1S,2R)-3-[(1,3-benzodioxol-5-ylsulfonyl)(2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)-(9CI)] (CA INDEX NAME)

Absolute stereochemistry.



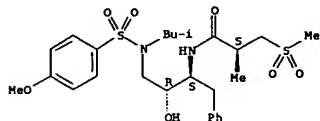
L12 ANSWER 104 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 RN 174303-67-4 CAPLUS
 CN L-Alaninamide, N-methylglycyl-N-[3-[(1,3-benzodioxol-5-ylsulfonyl) (2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-, [R-(R',S')]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 157566-81-9
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (retroviral protease inhibitor combinations, and protease inhibitor preparation)
 RN 157566-81-9 CAPLUS
 CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[[[(4-methoxyphenyl)sulfonyl] (2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

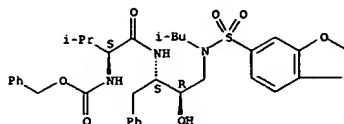
Absolute stereochemistry.



IT 174303-69-6P 174303-70-9P 174303-71-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (retroviral protease inhibitor combinations, and protease inhibitor preparation)
 RN 174303-69-6 CAPLUS
 CN Carbamic acid, [(1S)-1-[[[(1S,2R)-3-[(1,3-benzodioxol-5-ylsulfonyl) (2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylpropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

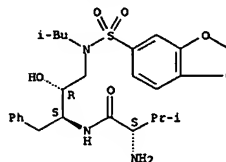
Absolute stereochemistry.

L12 ANSWER 104 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



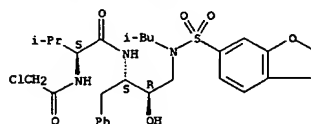
RN 174303-70-9 CAPLUS
 CN Butanamide, N-[(1S,2R)-3-[(1,3-benzodioxol-5-ylsulfonyl) (2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-3-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 174303-71-0 CAPLUS
 CN Butanamide, N-[(1S,2R)-3-[(1,3-benzodioxol-5-ylsulfonyl) (2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(chloroacetyl)amino]-3-methyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

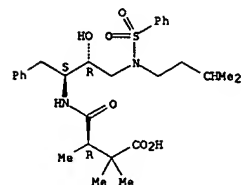


L12 ANSWER 105 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1996:47171 CAPLUS
 DOCUMENT NUMBER: 124:193129
 TITLE: Determination of protein binding by in vitro charcoal adsorption
 AUTHOR(S): Yuan, Linhua; Yang, Dai Chang; Bickmeier, Jill; Stolzenbach, James
 CORPORATE SOURCE: Pharmacokinetics, Bioanalytical and Radiochemistry Function, G. D. Searle Research and Development, Skokie, IL, 60077, USA
 SOURCE: Journal of Pharmacokinetics and Biopharmaceutics (1995), 23(1), 41-55
 CODEN: JPBFBJ; ISSN: 0090-466X
 PUBLISHER: Plenum
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Certain compds. such as SC-52151 have extensive nonspecific adsorption to the ultrafiltration devices or to dialysis membranes and therefore can not be measured by the conventional ultrafiltration or equilibrium dialysis methods. A new method based on charcoal adsorption was developed to overcome this difficulty. Unlike many conventional methods, which are based on the separation of free drug from bound drug under equilibrium conditions,

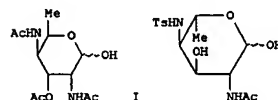
the new method is operated under nonequil. conditions and involves measuring the time course of decline of the percentage of bound drug remaining in plasma while the free drug is being removed by charcoal adsorption. Theor. aspects of the method and the data processing procedure are presented. SC-98A, a compound with minimal nonspecific adsorption to the ultrafiltration membrane, was used to demonstrate the applicability of this method against the ultrafiltration method. Using this method, the protein binding of SC-52151 in human plasma at 1.0 µg/mL was determined to be in the range of 91.4-97.7% at room temperature

IT 157445-98-2, SC 98A
 RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (protein binding determination by in vitro charcoal adsorption)
 RN 157445-98-2 CAPLUS
 CN Butanoic acid, 4-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



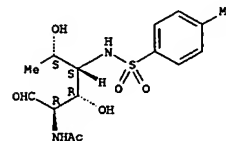
L12 ANSWER 106 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1996:14977 CAPLUS
 DOCUMENT NUMBER: 124:202836
 TITLE: The synthesis of derivatives of 2,4-diamino-2,4,6-trideoxy-D-gulo- and L-altro-hexopyranoses
 AUTHOR(S): Banaszek, Anna; Pakulski, Zbigniew; Zamojski, Aleksander
 CORPORATE SOURCE: Inst. Organic Chemistry, Warsaw, 01-224, Pol.
 SOURCE: Carbohydrate Research (1995), 279, 173-82
 CODEN: CRBRAT; ISSN: 0008-6215
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB Syntheses of 2,4-diamino-2,4,6-trideoxyhexoses having the D-gulo I and L-altro II configuration have been described. I was obtained by two routes starting from benzyl 2-benzoyloxycarbonylamino-2-deoxy-α-D-glucopyranoside. II was obtained from 3,4-di-O-acetyl-L-rhamnal in a 10-step reaction sequence.

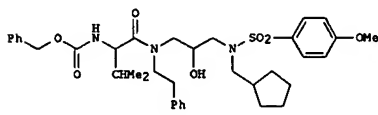
IT 174151-51-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (the synthesis of derivs. of diaminotrideoxygulo and altrohexitranoses)
 RN 174151-51-0 CAPLUS
 CN L-Altrose, 2-(acetylamino)-2,4,6-trideoxy-4-[[[(4-methylphenyl)sulfonyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L12 ANSWER 107 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1995:994876 CAPLUS
 DOCUMENT NUMBER: 124:116874
 TITLE: Preparation of sulfonamide derivatives as aspartyl protease inhibitors
 INVENTOR(S): Tung, Roger Dennis; Salituro, Francesco Gerald; Delinger, David D.; Murcko, Mark Andrew; Novak, Perry Michael; Bhasetti, Govinda Rao
 PATENT ASSIGNEE(S): Vertex Pharmaceuticals Inc., USA
 SOURCE: PCT Int. Appl., 211 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9524385	A1	19950914	WO 1995-US2420	19950224
V: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TT, UA				
RW: KE, MW, SD, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2183653	AA	19950914	CA 1995-2183653	19950224
AU 9519332	A1	19950925	AU 1995-19332	19950224
AU 699483	B2	19981203		
EP 749421	A1	19961227	EP 1995-911960	19950224
EP 749421	B1	19990915		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1146201	A	19970326	CN 1995-192473	19950224
JP 10500938	T2	19980127	JP 1995-523497	19950224
AT 184594	E	19991015	AT 1995-911960	19950224
ES 2139195	T3	20000201	ES 1995-911960	19950224
ZA 9501688	A	19951211	ZA 1995-1688	19950301
US 6127372	A	20001003	US 1996-424372	19960401
HK 1012622	A1	20000922	HK 1998-113972	19981217
GR 3032151	T3	20000427	GR 1999-403237	19991215
			US 1994-207580	A 19940307
PRIORITY APPL. INFO.:			WO 1995-US2420	W 19950224
OTHER SOURCE(S):		MARPAT 124:116874		
GI				



AB Z(CHD)PC(G)(CCK')mC(G')ND'SO2E' [D,D' = aryl, heterocyclyl, NH2, alkyl, etc.; E,E' = OH, NH2, aryl, heterocyclyl, etc.; G,G' = H2, O; X,X' = H, OH, NH2, halo, etc.; XX' = O; Z = NDSO2E, NHA, NHE, heterocyclyl, etc.; A = H, (cyclo)alkyl, Ph, heterocyclyl, etc.; m = 1-3; p = 0 or 1] were

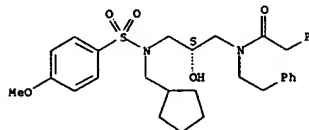
L12 ANSWER 108 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1995:964989 CAPLUS
 DOCUMENT NUMBER: 124:176937
 TITLE: N-[(Succinoylamino)hydroxypropyl]sulfonamides useful as retroviral protease inhibitors
 INVENTOR(S): Vasquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel; Decrescenzo, Gary A.; Freskos, John N.
 PATENT ASSIGNEE(S): G. D. Searle and Co., USA
 SOURCE: U.S., 32 pp. Cont.-in-part of U.S. Ser. No. 935,490, abandoned
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5463104	A	19951031	US 1993-110912	19930824
AT 154800	E	19970715	AT 1993-920213	19930824
ES 2103488	T3	19970916	ES 1993-920213	19930824
US 5714605	A	19980203	US 1995-541350	19951010
US 5760076	A	19980602	US 1995-541747	19951010
US 6022994	A	20000208	US 1998-41016	19980312
US 6313345	B1	20011106	US 1999-419816	19991018
US 2002137942	A1	20020926	US 2001-884462	20010620
US 6469207	B2	20021022		
US 2003220508	A1	20031127	US 2002-237184	20020909
US 6727282	B2	20040427		
US 2005004043	A1	20050106	US 2004-784916	20040224
PRIORITY APPL. INFO.:			US 1992-935490	B2 19920825
			US 1993-110912	A3 19930824
			US 1995-541350	A1 19951010
			US 1995-541747	A1 19951010
			US 1998-41016	A1 19980312
			US 1999-419816	A1 19991018
			US 2001-884462	A1 20010620
			US 2002-237184	A1 20020909

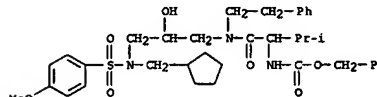
OTHER SOURCE(S): MARPAT 124:176937
 GI

L12 ANSWER 107 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 prepd. Title compd. I had Ki of 7nM against HIV-1 protease.
 IT 172738-22-6P 172738-29-3P 172738-35-1P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 RN 172738-22-6 CAPLUS
 CN Benzeneacetamide, N-[(2S)-3-[(cyclopentylmethyl)[(4-methoxyphenyl)sulfonyl]amino]-2-hydroxypropyl]-N-(2-phenylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

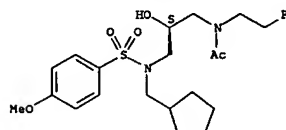


RN 172738-29-3 CAPLUS
 CN Carbamic acid, [1-[[[3-[(cyclopentylmethyl)[(4-methoxyphenyl)sulfonyl]amino]-2-hydroxypropyl](2-phenylethyl)amino]carbonyl]-2-methylpropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

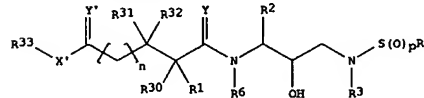


RN 172738-35-1 CAPLUS
 CN Acetamide, N-[(2S)-3-[(cyclopentylmethyl)[(4-methoxyphenyl)sulfonyl]amino]-2-hydroxypropyl]-N-(2-phenylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



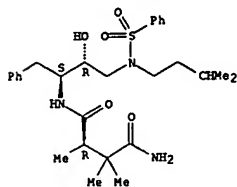
L12 ANSWER 108 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



AB Succinoylamino hydroxyethylamino sulfonamide compds. I or a pharmaceutically acceptable salt or ester thereof, wherein p represents 0, 1 or 2; n represents either 0 or 1; X' represents N(R34) or O; or R33X' represents cycloalkyl or aryl radicals; Y and Y' each independently represent O or S; R1, R30, R31 and R32 each independently represent hydrogen, OH, (CH2)C(O)CH3, CH2SO2NH2, CO2CH3, CONHCH3, CON(CH3)2, CH2C(O)NHCH3, CH2C(O)N(CH3)2, CONH2, C(CH3)2(SH), C(CH3)2(SCH3), C(CH3)2(S(O)CH3), C(CH3)2[S(O)2CH3], alkyl, haloalkyl, alkenyl, alkynyl, aralkyl or cycloalkyl radicals, or the side chain of the amino acid aspartagine, S-Me cysteine or the corresponding sulfoxide or sulfone derivs. thereof, leucine, isoleucine, allo-isoleucine, tert-leucine, phenylalanine, ornithine, alanine, norleucine, glutamine, valine, threonine, serine, o-alkyl serine, aspartic acid, β-cyanoalanine or allothreonine; or R30 and R32 together with the carbon atoms to which they are attached form a cycloalkyl radical; R2 = e.g., alkyl, aryl, cycloalkyl; R3, R33, R34 = e.g., H, alkyl, haloalkyl; R4 = e.g., alkyl, haloalkyl, alkenyl; R6 = H, alkyl; are effective as retroviral protease inhibitors, and in particular as inhibitors of HIV protease. Thus, e.g., butanediamide II was prepared by coupling of benzyl (R)-2,2,3-trimethylsuccinate (preparation given) with 2(R)-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1(S)-(phenylmethyl)propylamine (preparation given) followed by benzyl ester hydrogenolysis and amidation, and exhibited IC50 = 2 nM for inhibition of HIV protease.
 IT 157445-96-0P 157445-97-1P 157445-98-2P
 157445-99-3P 157446-00-0P 157446-02-1P
 157446-03-2P 157446-04-3P 157446-05-4P
 157446-06-5P 157446-07-6P 157446-08-7P
 157446-09-8P 157474-44-7P 173590-71-1P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 RN N-[(succinoylamino)hydroxypropyl]sulfonamides useful as retroviral protease inhibitors

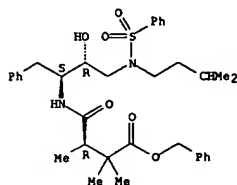
L12 ANSWER 108 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 RN 157445-96-0 CAPLUS
 CN Butanediamide, N4-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 157445-97-1 CAPLUS
 CN Butanoic acid, 4-[[[2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl] amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(5*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

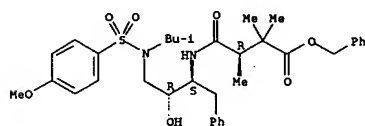


RN 157445-98-2 CAPLUS
 CN Butanoic acid, 4-[[[2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl] amino]-2,2,3-trimethyl-4-oxo-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

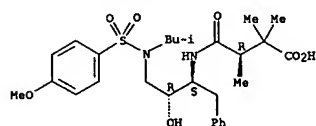
L12 ANSWER 108 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 methylpropyl) amino]-1-(phenylmethyl)propyl] amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(5*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



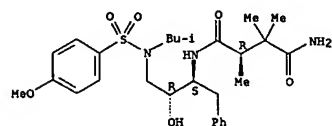
RN 157446-03-2 CAPLUS
 CN Butanoic acid, 4-[[[2-hydroxy-3-[(4-methoxyphenyl)sulfonyl] (2-methylpropyl) amino]-1-(phenylmethyl)propyl] amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(5*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 157446-04-3 CAPLUS
 CN Butanediamide, N4-[(1S,2R)-2-hydroxy-3-[[[4-methoxyphenyl)sulfonyl] (2-methylpropyl) amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)- (9CI) (CA INDEX NAME)

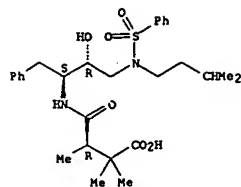
Absolute stereochemistry.



RN 157446-05-4 CAPLUS
 CN Butanediamide, N4-[(1S,2R)-2-hydroxy-3-[[[4-methoxyphenyl)sulfonyl] (3-methylbutyl) amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)- (9CI) (CA INDEX NAME)

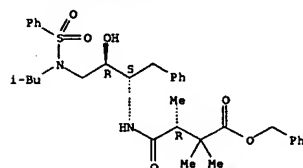
Absolute stereochemistry.

L12 ANSWER 108 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



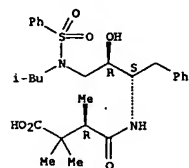
RN 157445-99-3 CAPLUS
 CN Butanoic acid, 4-[[[2-hydroxy-3-[(2-methylpropyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl] amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(5*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



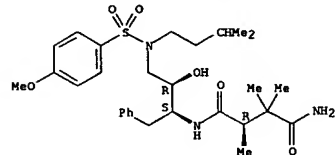
RN 157446-00-9 CAPLUS
 CN Butanoic acid, 4-[[[2-hydroxy-3-[(2-methylpropyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl] amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(5*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



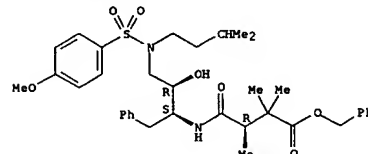
RN 157446-02-1 CAPLUS
 CN Butanoic acid, 4-[[[2-hydroxy-3-[[[4-methoxyphenyl)sulfonyl] (2-

L12 ANSWER 108 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



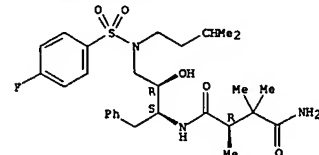
RN 157446-06-5 CAPLUS
 CN Butanoic acid, 4-[[[2-hydroxy-3-[[[4-methoxyphenyl)sulfonyl] (3-methylbutyl) amino]-1-(phenylmethyl)propyl] amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(5*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



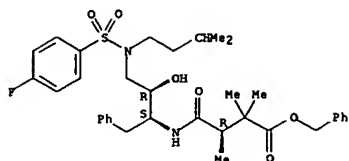
RN 157446-07-6 CAPLUS
 CN Butanediamide, N4-[(1S,2R)-2-hydroxy-3-[[[4-fluorophenyl)sulfonyl] (3-methylbutyl) amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



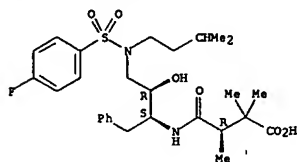
RN 157446-08-7 CAPLUS
 CN Butanoic acid, 4-[[[3-[[[4-fluorophenyl)sulfonyl] (3-methylbutyl) amino]-2-hydroxy-1-(phenylmethyl)propyl] amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(5*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



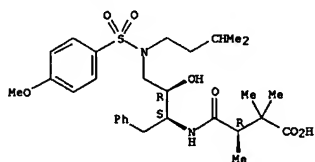
RN 157446-09-8 CAPLUS
CN Butanoic acid, 4-[[3-[[[(4-fluorophenyl)sulfonyl] (3-methylbutyl) amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(5*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 157474-44-7 CAPLUS
CN Butanoic acid, 4-[[2-hydroxy-3-[[[(4-methoxyphenyl)sulfonyl] (3-methylbutyl) amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(5*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 173590-71-1 CAPLUS
CN Butanediamide, N4-[(1S,2R)-2-hydroxy-3-[(2-methylpropyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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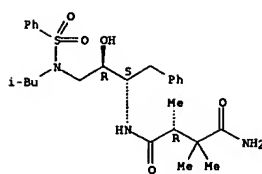
ACCESSION NUMBER: 1995:071984 CAPLUS
DOCUMENT NUMBER: 123:279761
TITLE: Hydroxyethylamino sulfonamides useful as retroviral protease inhibitors
INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel P.; Decrescenzo, Gary A.; Frenkos, John N.; Bertenshaw, Deborah E.; Heintz, Robert M.
PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Monsanto Co.
SOURCE: PCT Int. Appl., 255 pp.
CODEN: PIKXND
DOCUMENT TYPE: Patent
LANGUAGES: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9506030	A1	19950302	WO 1994-US9139	19940823
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5843946	A	19981201	US 1993-110911	19930824
US 6060476	A	20000509	US 1994-204827	19940302
AU 9476697	A1	19950321	AU 1994-76697	19940823
EP 715618	A1	19960612	EP 1994-927162	19940823
EP 715618	B1	19981216		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
US 6046190	A	20000404	US 1996-586866	19960124
PRIORITY APPLN. INFO.:			US 1993-110911	A 19930824
			US 1994-204827	A 19940302
			US 1992-934984	B2 19920825
			WO 1993-US7814	A2 19930824
			US 1994-204872	B2 19940302
			WO 1994-US9139	W 19940823

OTHER SOURCE(S): MARPAT 123:279761
AB Hydroxyethylamino sulfonamide compds. AC(:Y)NR6CHR2CHOHCH2NR3S(:O)xR4 [I: R2=(substituted)alkyl, aryl, cycloalkyl, cycloalkylalkyl, aralkyl; R3=H; R3,R4=R2, alkenyl, alkynyl, heterocycloalkyl, -aryl, -aralkyl, -cycloalkylalkyl; R6=H, alkyl; x=1,2; Y=O, S; A=RO, R; R=alkyl, alkenyl; (hetero)aryl, cycloalkyl, cycloalkylalkyl, aralkyl, NH2, mono- or disubstituted amino, etc.] are effective as retroviral protease inhibitors, and in particular as inhibitors of HIV protease. Many inhibitors were prepared by (1) preparing an N-protected amino epoxide and

(2) reacting this with an amine and (3) preparing a sulfonamide by reacting with a sulfonyl chloride or sulfonyl anhydride in the presence of an acid scavenger. The amino function of the sulfonamide was then (4) deprotected and (5) reacted with a carboxylate. In vitro HIV protease assays with these compds. revealed inhibitors with IC50's as low as 1.4 nM, e.g. [1S-[1R*(5*),2S*]]-1 (A-p-MeOCH2CH2COCH2CH2Me; Y=O; R6=H; R2=benzyl; R3=3-methylbutyl; x=2; R4=phenyl).

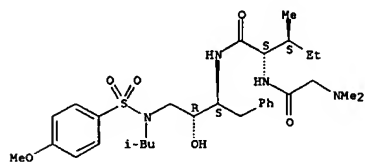
IT 159005-68-2P 159005-69-3P 159005-70-6P
159005-89-7P 159005-91-1P 159005-93-3P
159005-94-4P 159005-95-5P 159005-07-2P
159005-21-0P 159005-23-2P 169280-41-5P
169280-42-6P 169280-43-7P 169281-02-1P
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L12 ANSWER 109 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

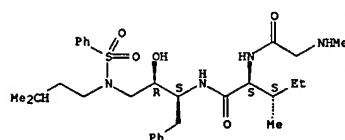
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169437-00-7P 169437-01-8P 169437-02-9P
169437-03-0P 169437-04-1P 169437-05-2P
RL: SAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(hydroxyethylamino sulfonamides useful as retroviral protease inhibitors)
RN 159005-68-2 CAPLUS
CN L-isoleucinamide, N,N-dimethylglycyl-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



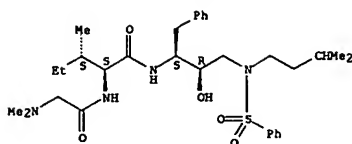
RN 159005-69-3 CAPLUS
CN L-isoleucinamide, N-methylglycyl-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



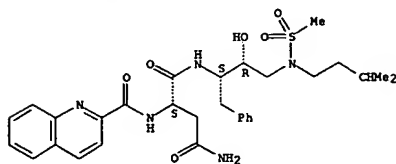
RN 159005-70-6 CAPLUS
CN L-isoleucinamide, N,N-dimethylglycyl-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



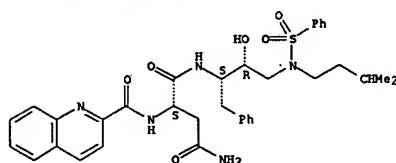
RN 159005-89-7 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(methylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159005-91-1 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

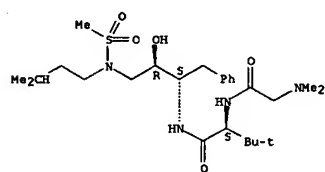


RN 159005-93-3 CAPLUS
CN L-Valinamide, N,N-dimethylglycyl-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-N4-methyl-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

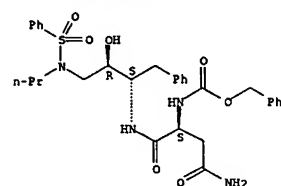
L12 ANSWER 109 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Absolute stereochemistry.



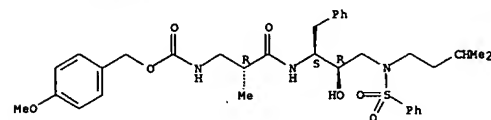
RN 159006-21-0 CAPLUS
CN Carbamic acid, [(1S)-3-amino-1-[[[(1S,2R)-2-hydroxy-1-(phenylmethyl)-3-[(phenylsulfonyl)propylamino]propyl]amino]carbonyl]-3-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

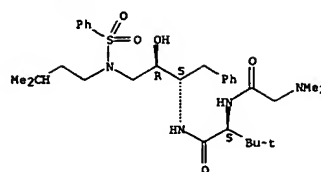


RN 159006-23-2 CAPLUS
CN Carbamic acid, [(2R)-3-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2-methyl-3-oxopropyl]-, (4-methoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

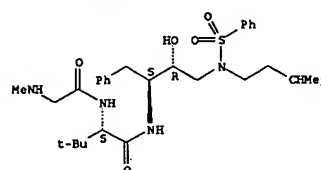


RN 169280-41-5 CAPLUS
CN Acetamide, 2-[(2,6-dimethylphenoxy)-N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]- (9CI) (CA INDEX NAME)



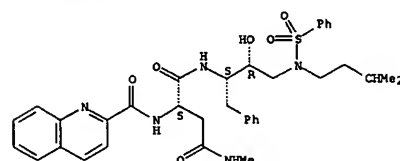
RN 159005-94-4 CAPLUS
CN L-Valinamide, N-methylglycyl-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159005-95-5 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-N4-methyl-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

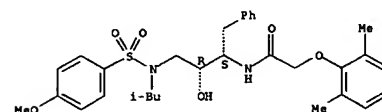
Absolute stereochemistry.



RN 159006-07-2 CAPLUS
CN L-Valinamide, N,N-dimethylglycyl-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(methylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI) (CA INDEX NAME)

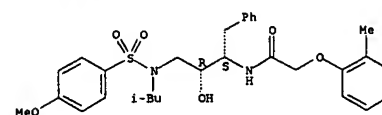
L12 ANSWER 109 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Absolute stereochemistry.



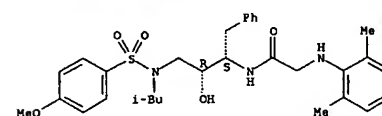
RN 169280-42-6 CAPLUS
CN Acetamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-(2-methylphenoxy)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

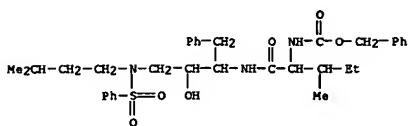


RN 169280-43-7 CAPLUS
CN Acetamide, 2-[(2,6-dimethylphenyl)amino]-N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

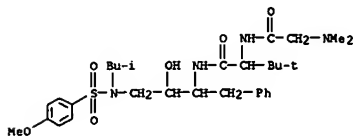


RN 169281-02-1 CAPLUS
CN Carbamic acid, [1-[[[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylbutyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)



RN 169281-03-2 CAPLUS

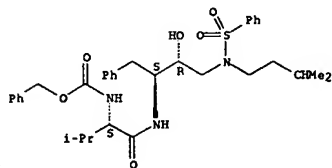
CN L-Valinamide, N,N-dimethylglycyl-N-[2-hydroxy-3-[[[4-methoxyphenyl]sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI) (CA INDEX NAME)



RN 169281-04-3 CAPLUS

CN Carbanic acid, [(1S)-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylpropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

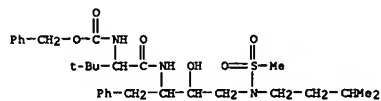


RN 169281-13-4 CAPLUS

CN L-Valinamide, N,N-dimethylglycyl-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-(methylthio)- (9CI) (CA INDEX NAME)

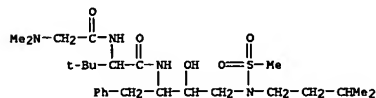
Absolute stereochemistry.

CN 2-Thia-3,7,10-triazaundecan-11-oic acid, 9-(1,1-dimethylethyl)-5-hydroxy-3-(3-methylbutyl)-8-oxo-6-(phenylmethyl)-, phenylmethyl ester, 2,2-dioxide (9CI) (CA INDEX NAME)



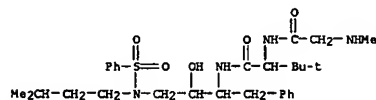
RN 169437-00-7 CAPLUS

CN Valinamide, N,N-dimethylglycyl-N-[2-hydroxy-3-[(3-methylbutyl)(methylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI) (CA INDEX NAME)



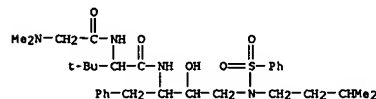
RN 169437-01-8 CAPLUS

CN Valinamide, N-methylglycyl-N-[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI) (CA INDEX NAME)

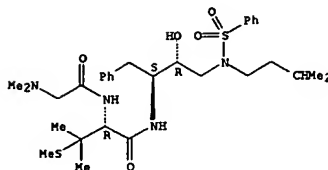


RN 169437-02-9 CAPLUS

CN Valinamide, N,N-dimethylglycyl-N-[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI) (CA INDEX NAME)



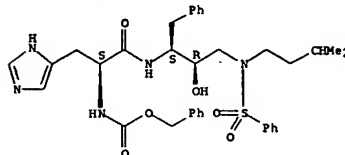
RN 169437-03-0 CAPLUS



RN 169281-14-5 CAPLUS

CN Carbanic acid, [(1S)-2-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-1-(1H-imidazol-4-ylmethyl)-2-oxoethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

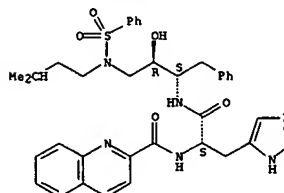
Absolute stereochemistry.



RN 169281-17-8 CAPLUS

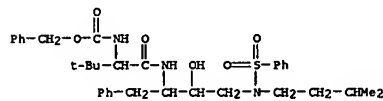
CN 2-Quinolincarboxamide, N-[(1S)-2-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-1-(1H-imidazol-4-ylmethyl)-2-oxoethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



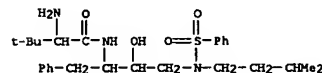
RN 169436-99-1 CAPLUS

CN Carbanic acid, [1-[[[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-2,2-dimethylpropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)



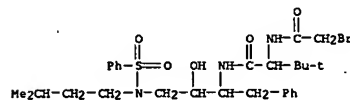
RN 169437-04-1 CAPLUS

CN Butanamide, 2-amino-N-[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3,3-dimethyl- (9CI) (CA INDEX NAME)



RN 169437-05-2 CAPLUS

CN Butanamide, 2-[(bromoacetyl)amino]-N-[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3,3-dimethyl- (9CI) (CA INDEX NAME)



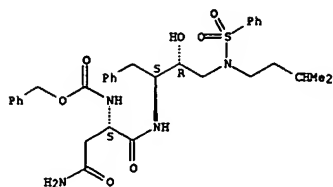
IT 159005-92-2 159006-06-1

RL: RCT (Reactant); RACT (Reactant or reagent) (hydroxyethylamino sulfonamides useful as retroviral protease inhibitors)

RN 159005-92-2 CAPLUS

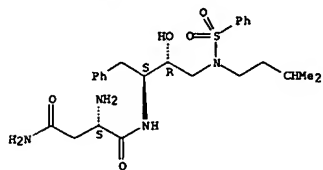
CN Carbanic acid, [(1S)-3-amino-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-3-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159006-06-1 CAPLUS
 CN Butanediamide, 2-amino-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-, (2S)-(9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

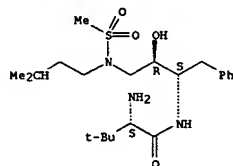


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 159006-09-4P 159006-10-7P 159006-11-8P
 159006-12-9P 159006-14-1P 159006-17-4P
 159006-18-5P 159006-22-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (hydroxyethylamino sulfonamides useful as retroviral protease
 inhibitors)
 RN 159005-90-0 CAPLUS
 CN 2-Thia-3,7,10-triazasundecan-11-oic acid, 9-(2-amino-2-oxoethyl)-5-hydroxy-
 3-(3-methylbutyl)-9-oxo-6-(phenylmethyl)-, phenylmethyl ester,
 2,2-dioxide, (5R,6S,9S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

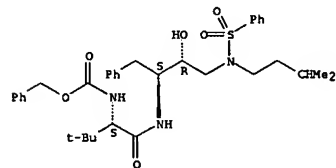
L12 ANSWER 109 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 methylbutyl)(methylsulfonyl)amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-,
 (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



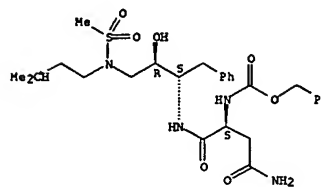
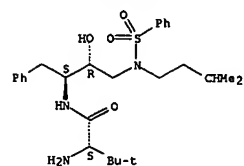
RN 159006-10-7 CAPLUS
 CN Carbamic acid, [(1S)-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-
 2,2-dimethylpropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



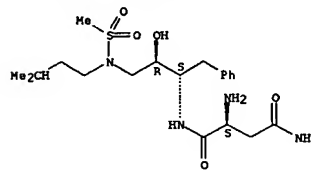
RN 159006-11-8 CAPLUS
 CN Butanamide, 2-amino-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-,
 (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



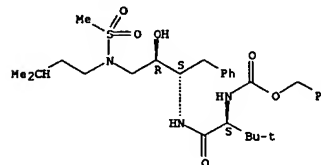
RN 159006-05-0 CAPLUS
 CN Butanediamide, 2-amino-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(methylsulfonyl)amino]-1-(phenylmethyl)propyl]-, (2S)-(9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



RN 159006-08-3 CAPLUS
 CN 2-Thia-3,7,10-triazasundecan-11-oic acid, 9-(1,1-dimethylethyl)-5-hydroxy-3-
 (3-methylbutyl)-8-oxo-6-(phenylmethyl)-, phenylmethyl ester, 2,2-dioxide,
 (5R,6S,9S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

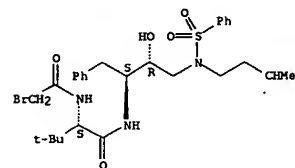


RN 159006-09-4 CAPLUS
 CN Butanamide, 2-amino-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-,
 (2S)-(9CI) (CA INDEX NAME)

L12 ANSWER 109 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

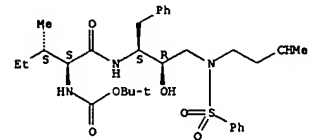
RN 159006-12-9 CAPLUS
 CN Butanamide, 2-[(bromoacetyl)amino]-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-,
 (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



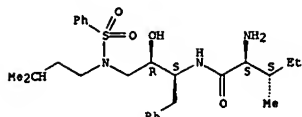
RN 159006-13-0 CAPLUS
 CN Carbamic acid, [(1S,2S)-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-
 2-methylbutyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159006-14-1 CAPLUS
 CN Pentanamide, 2-amino-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-methyl-,
 monohydrochloride, (2S,3S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

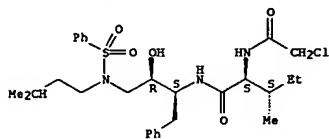


• HCl

RN 159006-15-2 CAPLUS

CN Pentanamide, 2-[(chloroacetyl)amino]-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-methyl-, (2S,3S)- (9CI) (CA INDEX NAME)

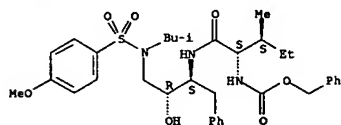
Absolute stereochemistry.



RN 159006-16-3 CAPLUS

CN Carbamic acid, [(1S,2S)-1-[[[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl] (2-methylpropyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylbutyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159006-17-4 CAPLUS

CN Pentanamide, 2-amino-N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl] (2-methylpropyl)amino]-1-(phenylmethyl)propyl]-3-methyl-, (2S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 110 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:408388 CAPLUS

DOCUMENT NUMBER: 122:180162

TITLE:

preparation of sulfonylalkanoylamino hydroxyethylamino sulfamic acids as retroviral protease inhibitors

Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel P.; De Crescenzo, Gary A.; Sun, Eric T.

G.D. Seale and Co., USA; Monsanto Co.

PCT Int. Appl., 111 pp.

CODEN: PIXXD2

Patent

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

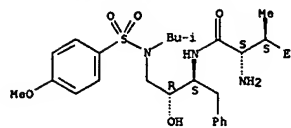
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9410136	A1	19940511	WO 1993-US10461	19931029
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2143191	AA	19940511	CA 1993-2143191	19931029
AU 9456651	A1	19940524	AU 1994-56651	19931029
EP 666843	A1	19950816	EP 1994-902199	19931029
EP 666843	B1	19990818		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
EP 885881	A2	19981223	EP 1998-114522	19931029
EP 885881	A3	19991006		
EP 885881	B1	20030312		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE				
EP 885880	A2	19981223	EP 1998-114523	19931029
EP 885880	A3	19991006		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE				
AT 183499	E	19990915	AT 1994-902199	19931029
ES 2134924	T3	19991016	ES 1994-902199	19931029
AT 234279	E	20030315	AT 1998-114522	19931029
PT 885881	T	20030731	PT 1998-114522	19931029
ES 2196436	T3	20031216	ES 1998-114522	19931029
EP 1462443	A1	20040929	EP 2004-7097	19931029
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE				
US 5583132	A	19961210	US 1995-379645	19950202
GR 3031646	T3	20000229	GR 1999-402735	19991027
PRIORITY APPLN. INFO.:				
US 1992-969612 A 19921030				
EP 1994-902199 A3 19931029				
WO 1993-US10461 W 19931029				
EP 1998-114523 A3 19980803				

OTHER SOURCE(S): MARPAT 122:180162

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

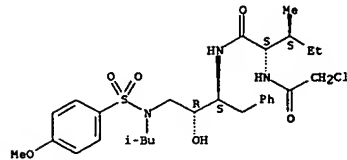
AB Sulfonylalkanoylamino hydroxyamino sulfamic acid compds. [I: R = alkyl, alkenyl, alkynyl, cycloalkyl, hydroxyalkyl, etc.; R1, R20, R21 = H, CH2-SO2-NH2, CH2-CO2-Me, CO2Me, CONH2, etc.; R2 = alkyl, aryl, cycloalkyl, cycloalkylalkyl, etc.; R3 = alkyl, haloalkyl, alkenyl, alkynyl,



RN 159006-18-5 CAPLUS

CN Pentanamide, 2-[(chloroacetyl)amino]-N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl] (2-methylpropyl)amino]-1-(phenylmethyl)propyl]-3-methyl-, (2S,3S)- (9CI) (CA INDEX NAME)

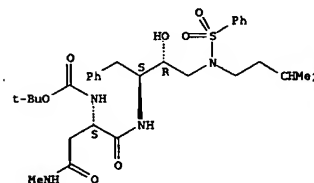
Absolute stereochemistry.



RN 159006-22-1 CAPLUS

CN Carbamic acid, [(1S)-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-3-(methylamino)-3-oxopropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L12 ANSWER 110 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN

hydroxyalkyl; R4, R5 = H, any group in the definition of R3; R6 = H, alkyl; x = 1, 2; t = 0, 1, 2; Y = O, S, NR15; R15 = H, any group in the definition of R3] and their pharmaceutically acceptable salts and esters, effective as retroviral protease inhibitors, and in particular as inhibitors of HIV protease, are prep'd. E.g., 2(S)-methyl-3-(methylsulfonyl)propionic acid was condensed with the phenylalanine deriv. II (prepn. given) in DMF contg. HOBt and 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide at 0° for 2 h and at room temp. for 16 h to give the title compd. III. III was the only title compd. prep'd. with data and it was not tested for biol. activities; however, some intermediates, e.g., analogs of II, were tested for their HIV inhibition activity.

160765-62-8P 160763-63-9P 160765-64-0P 161446-48-6P 161446-49-7P 161446-50-0P

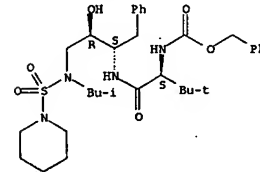
RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(in preparation of sulfonylalkanoylamino hydroxyethylamino sulfamic acids as retroviral protease inhibitors)

RN 160765-62-8 CAPLUS

CN Carbamic acid, [1-[[[2-hydroxy-3-[(2-methylpropyl) (1-piperidinyl)sulfonyl]amino]-1-(phenylmethyl)propyl]amino]carbonyl]-2,2-dimethylpropyl]-, phenylmethyl ester, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

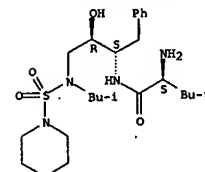
Absolute stereochemistry.



RN 160765-63-9 CAPLUS

CN Butanamide, 2-amino-N-[2-hydroxy-3-[(2-methylpropyl) (1-piperidinyl)sulfonyl]amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

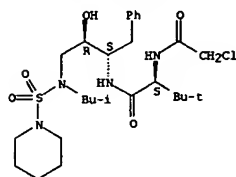
Absolute stereochemistry.



RN 160765-64-0 CAPLUS

CN Butanamide, 2-[(chloroacetyl)amino]-N-[2-hydroxy-3-[(2-methylpropyl)(1-piperidinylsulfonyl)amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

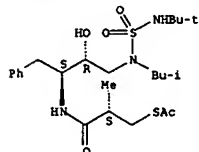
Absolute stereochemistry.



RN 161446-48-6 CAPLUS

CN Ethanethioic acid, S-[6-hydroxy-2,11,11-trimethyl-8-(2-methylpropyl)-3-oxo-5-(phenylmethyl)-9-thia-4,8,10-triazadodec-1-yl] ester, 9,9-dioxide, [2S-[2R*(R*),5R*(R*),6S*]]- (9CI) (CA INDEX NAME)

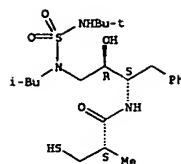
Absolute stereochemistry.



RN 161446-49-7 CAPLUS

CN Propanamide, N-[3-[[[(1,1-dimethylethyl)amino]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-3-mercapto-2-methyl-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

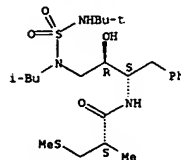
Absolute stereochemistry.



RN 161446-50-0 CAPLUS

CN Propanamide, N-[3-[[[(1,1-dimethylethyl)amino]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylthio)-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



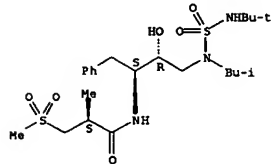
IT 161446-45-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation as retroviral protease inhibitors)

RN 161446-45-3 CAPLUS

CN Propanamide, N-[3-[[[(1,1-dimethylethyl)amino]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



ACCESSION NUMBER: 1995:352211 CAPLUS

DOCUMENT NUMBER: 122:204547

TITLE: Inhibitors of HIV-1 Protease Containing the Novel and Potent (R)-(Hydroxyethyl)sulfonamide Isostere

AUTHOR(S): Vazquez, Michael L.; Bryant, Martin L.; Clare, Michael; DeCrescenzo, Gary A.; Doherty, Elizabeth M.; Freskos, John N.; Getman, Daniel P.; Houseman, Kathryn A.; Julien, Janet A.; et al.

CORPORATE SOURCE: Searle Discovery Research, Skokie, IL, 60077, USA

SOURCE: Journal of Medicinal Chemistry (1995), 38(4), 581-4

CODEN: JMCMAH; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 122:204547

AB The authors have prepared and tested a series of novel and highly potent HIV-1 protease inhibitors based on the (R)-(hydroxyethyl)sulfonamide isostere. The isostere exhibits enhanced potency relative to the previously reported (hydroxyethyl)urea isostere. The preferred stereochem. for the critical hydroxyl group is R. X-ray crystallog. studies show that these inhibitors bind to the protease in an extended fashion with one of the sulfonamide oxygens forming a hydrogen bond to the key structural water mol. Some of the compds. showed excellent antiviral activity in vitro.

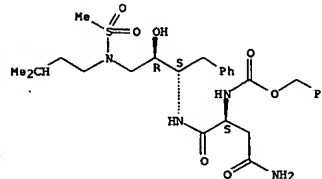
IT 159005-90-0

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study) (inhibitors of HIV-1 protease containing novel and potent (R)-(hydroxyethyl)sulfonamide isostere in relation to antiviral activity)

RN 159005-90-0 CAPLUS

CN 2-Thia-3,7,10-triazaundecan-11-ic acid, 9-(2-amino-2-oxoethyl)-5-hydroxy-3-(3-methylbutyl)-8-oxo-6-(phenylmethyl)-, phenylmethyl ester, 2,2-dioxide, (5R,6S,9S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



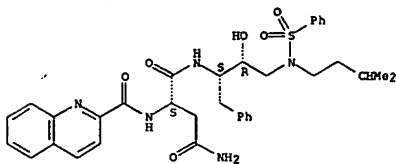
IT 159005-91-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (inhibitors of HIV-1 protease containing novel and potent (R)-(hydroxyethyl)sulfonamide isostere in relation to antiviral activity)

RN 159005-91-1 CAPLUS

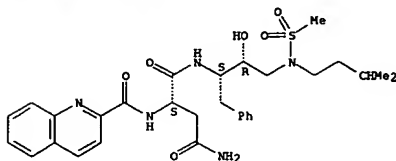
L12 ANSWER 111 OF 126 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)
 CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



IT 159005-89-7P 159005-92-2P
 RL: RAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (Inhibitors of HIV-1 protease containing novel and potent (R)-(hydroxyethyl)sulfonamide isostere in relation to antiviral activity)
 RN 159005-89-7 CAPLUS
 CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(methylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



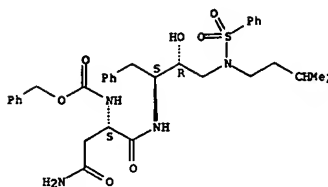
RN 159005-92-2 CAPLUS
 CN Carbanic acid, [(1S)-3-amino-1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-3-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 112 OF 126 CAPLUS COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 1995:340526 CAPLUS
 DOCUMENT NUMBER: 122:133838
 TITLE: preparation of succinoylamino hydroxyethylamino sulfamic acid derivatives as retroviral protease inhibitors
 INVENTOR(S): Vasquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel P.; De Crescenzo, Gary A.; Sun, Eric T.
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Monsanto Co.
 SOURCE: PCT Int. Appl.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

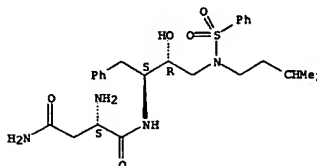
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9410133	A1	19940511	WO 1993-US10460	19931029
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2141570	AA	19940511	CA 1993-2141570	19931029
AU 9455892	A1	19940524	AU 1994-55892	19931029
EP 666841	A1	19950816	EP 1994-901230	19931029
EP 666841	B1	19970122		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
AT 148105	E	19970215	AT 1994-901230	19931029
ES 2097023	T3	19970316	ES 1994-901230	19931029
US 5602119	A	19970211	US 1995-379573	19950131
PRIORITY APPLN. INFO.:			US 1992-969683	A 19921030
			WO 1993-US10460	W 19931029
OTHER SOURCE(S):		MARPAT 122:133838		
GI				

L12 ANSWER 111 OF 126 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)

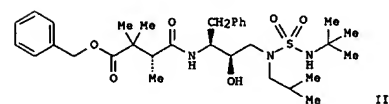
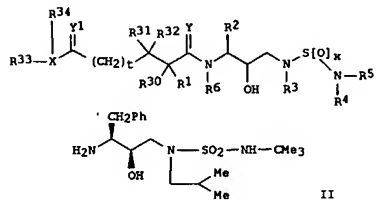


IT 159006-06-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (Inhibitors of HIV-1 protease containing novel and potent (R)-(hydroxyethyl)sulfonamide isostere in relation to antiviral activity)
 RN 159006-06-1 CAPLUS
 CN Butanediamide, 2-amino-N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-, (2S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



L12 ANSWER 112 OF 126 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)

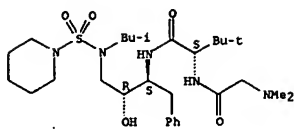


AB Title compds. [I; R1 = H, CH2-SO2-NH2, CH2-CO2Me, CO2Me, CONH2, CH2-CO-NHMe, CH2-SH, etc.; R2 = alkyl, acyl, cycloalkyl, cycloalkylalkyl, NO2, cyano, CF3, OH, SH, alkoxy, etc.; R3 = alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl, etc.; R4, R5 = H, any group in the definition of R3; R6 = H, alkyl; R30, R31, R32 = H, alkyl, alkenyl, alkynyl, etc.; R33, R34 = H, any group in the definition of R3, or R33 and R34 together with X = cycloalkyl, aryl, heterocyclyl, heteroaryl provided that when X = O, R34 = nil; X = N, O, CR17; R17 = H, alkyl; X = 1, 2, t = 0, 1, 2, Y, Y1 = O, S, NR15; R15 = H, any group in the definition of R3], effective as retroviral protease inhibitors, and in particular as inhibitors of HIV protease, are prepared Thus, 4-benzyl 2(R),3,3-trimethylsuccinate was condensed with the [(tert-butylamino)sulfonyl]amino]propylamine derivative II (preparation given) in DMF

containing HOBT and 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride to give the title compound III. III had an IC50 of 1.4 µM against retroviral protease in an in vitro study. The title compds. were also compared with AZT in a CEM cell assay.

IT 160677-29-2P 160765-62-8P 160765-63-9P
 160765-64-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as intermediate for retroviral protease inhibitors)
 RN 160677-29-2 CAPLUS
 CN L-Valinamide, N,N-dimethylglycyl-N-[2-hydroxy-3-[(2-methylpropyl)(1-piperidinylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-methyl-, [R-(R*,S*)]-(9CI) (CA INDEX NAME)

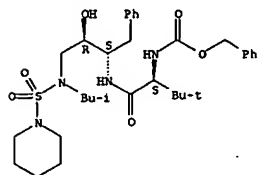
Absolute stereochemistry.



RN 160765-62-8 CAPLUS

CN Carbamic acid, [1-[[[2-hydroxy-3-[(2-methylpropyl) (1-piperidinylsulfonyl) amino]-1-(phenylmethyl)propyl] amino] carbonyl]-2,2-dimethylpropyl]-, phenylmethyl ester, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

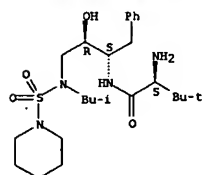
Absolute stereochemistry.



RN 160765-63-9 CAPLUS

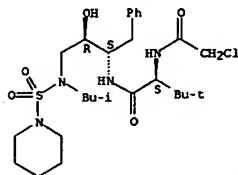
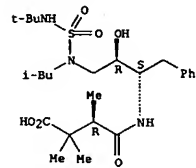
CN Butanamide, 2-amino-N-[2-hydroxy-3-[(2-methylpropyl) (1-piperidinylsulfonyl) amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 160765-64-0 CAPLUS

CN Butanamide, 2-[(chloroacetyl) amino]-N-[2-hydroxy-3-[(2-methylpropyl) (1-piperidinylsulfonyl) amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)



IT 160765-56-0P 160765-57-1P

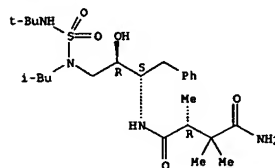
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of, as retroviral protease inhibitor)

RJ 160765-56-0 CAPLUS

CN Butanediolamide, N4-[(1S,2R)-3-[[[(1,1-dimethylethyl) amino] sulfonyl] (2-methylpropyl) amino]-2-hydroxy-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 160765-57-1 CAPLUS

CN 4-Thia-3,5,9-triazatridecan-13-oic acid, 7-hydroxy-2,2,11,12,12-pentamethyl-5-(2-methylpropyl)-10-oxo-8-(phenylmethyl)-, 4,4-dioxide, [7R-(7R*,8S*,11R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ACCESSION NUMBER: 1995:330514 CAPLUS

DOCUMENT NUMBER: 122:106521

TITLE: Preparation of N-sulfamidohydroxyalkyl amino acid amides as retroviral protease inhibitors

INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel P.; Decrescenzo, Gary A.; Sun, Eric T.

PATENT ASSIGNEE(S): G.D. Seale and Co., USA; Monsanto Co.

SOURCE: PCT Int. Appl., 153 pp.

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

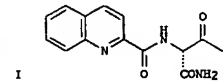
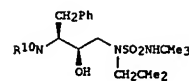
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9410134	A1	19940511	WO 1993-US10552	19931029
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2142997	AA	19940511	CA 1993-2142997	19931029
AU 9455470	A1	19940524	AU 1994-55470	19931029
EP 666842	A1	19950816	EP 1994-900506	19931029
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EP 810208	A2	19971203	EP 1997-113206	19931029
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AT 167669	E	19980715	AT 1994-900506	19931029
ES 2118364	T3	19980916	ES 1994-900506	19931029
AT 211462	E	20020115	AT 1997-113206	19931029
PT 810208	T	20020628	PT 1997-113206	19931029
ES 2170305	T3	20020801	ES 1997-113206	19931029
US 6156768	A	20001205	US 1995-379545	19950202
US 6444678	B1	20020903	US 2000-633063	20000804
US 2003158236	A1	20030821	US 2002-178956	20020625
PRIORITY APPLN. INFO.:				
			US 1992-968730	A 19921030
			EP 1994-900506	A3 19931029
			WO 1993-US10552	W 19931029
			US 1995-379545	A3 19950202
			US 2000-633063	A1 20000804

OTHER SOURCE(S):

MARPAT 122:106521

GI



AB RR'N(CR7R8) tCHR1C(:Y) NR6CHR2CH(OH) CH2NR3SOxNR4R5 [R = H, (cyclo)alkyl, (hetero)aryl, alkyl(oxy)carbonyl, heterocyclyl(oxy)carbonyl, etc.]; R' =

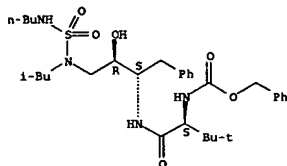
L12 ANSWER 113 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
groups cited for R3, R'SO2; R'' = groups cited for R3; NRR' = heterocyclyl, heterocaryl; R1,R7,R8 = H, (halo)alkyl, amino acid side chain, CONH2, CO2Me, etc.; R1R7 = atoms to form a cycloalkyl group; R2 = (un)substituted (cyclo)alkyl, aryl(alkyl); R3 = (cyclo)alkyl, (hetero)aryl(alkyl), aminoalkyl, etc.; R4,R5 = H, groups cited for R3; NR4R5 = heterocyclyl, heterocaryl; R6 = H, alkyl; Y = O, S, NH, NR3; t = 0-2; n = 1 or 2] were prepd. Thus, N-benzylsuccinyl-3(S)-amino-1,2(S)-epoxy-4-phenylbutane (prepn. given) was condensed with Me2CHCH2NH2 and the product amidated by ClSO2NHCH3 (prepn. given) to give, after deprotection, sulfamide I (R10 = 'H) which was N-acylated by N-BOC-L-asparagine and the deprotected product N-acylated by quinoline-2-carboxylic acid to give I (R10 = quinolinoylasparaginyl group Q). The latter had IC50 of 2nM against HIV-1 infection of CEM cells in vitro.

IT 160677-07-6P 160677-08-7P 160677-10-1P
160677-11-2P 160677-13-4P 160677-14-5P
160677-15-6P
RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of retroviral protease inhibitor)

RN 160677-07-6 CAPLUS

CN 10-Thia-2,5,9,11-tetraazapentadecanoic acid, 3-(1,1-dimethylethyl)-7-hydroxy-9-(2-methylpropyl)-4-oxo-6-(phenylmethyl)-, phenylmethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7S*)] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

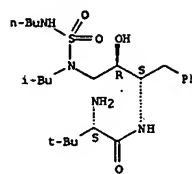


RN 160677-08-7 CAPLUS

CN Butanamide, 2-amino-N-[3-[(butylamino)sulfonyl] (2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-3,3-dimethyl-, [1S-[1R*(R*),2S*]] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

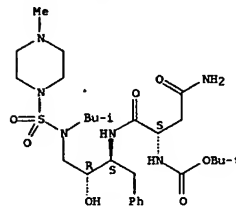
L12 ANSWER 113 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 160677-10-1 CAPLUS

CN Carbamic acid, [3-amino-1-[[[2-hydroxy-3-[[[4-methyl-1-piperazinyl)sulfonyl] (2-methylpropyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-3-oxopropyl]-, 1,1-dimethylethyl ester, [1S-[1R*(R*),2S*]] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

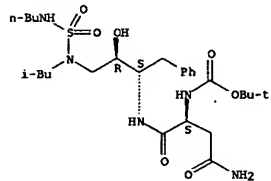


RN 160677-11-2 CAPLUS

CN 10-Thia-2,5,9,11-tetraazapentadecanoic acid, 3-(2-amino-2-oxoethyl)-7-hydroxy-9-(2-methylpropyl)-4-oxo-6-(phenylmethyl)-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7S*)] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

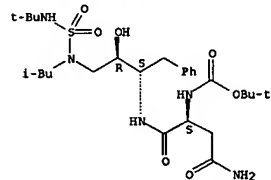
L12 ANSWER 113 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 160677-13-4 CAPLUS

CN 10-Thia-2,5,9,11-tetraazatridecanoic acid, 3-(2-amino-2-oxoethyl)-7-hydroxy-12,12-dimethyl-9-(2-methylpropyl)-4-oxo-6-(phenylmethyl)-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7S*)] - (9CI) (CA INDEX NAME)

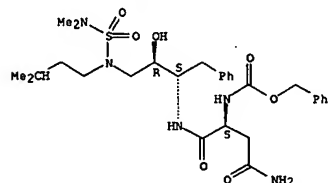
Absolute stereochemistry.



RN 160677-14-5 CAPLUS

CN 3-Thia-2,4,8,11-tetraazadodecan-12-oic acid, 10-(2-amino-2-oxoethyl)-6-hydroxy-2-methyl-4-(3-methylbutyl)-9-oxo-7-(phenylmethyl)-, phenylmethyl ester, 3,3-dioxide, [6R-(6R*,7S*,10S*)] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

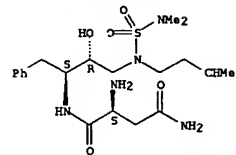


L12 ANSWER 113 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 160677-15-6 CAPLUS

CN Butanediamide, 2-amino-N-[3-[(dimethylamino)sulfonyl] (3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-, [1S-[1R*(R*),2S*]] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



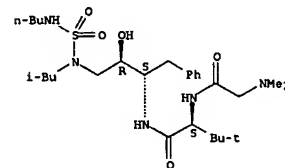
IT 160676-88-0P 160676-89-1P 160676-90-4P
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160677-18-9P 160677-27-0P 160677-28-1P
160677-29-2P

RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as retroviral protease inhibitor)

RN 160676-88-0 CAPLUS

CN L-Valinamide, N,N-dimethylglycyl-N-[3-[(butylamino)sulfonyl] (2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-3-methyl-, [R-(R*,S*)] - (9CI) (CA INDEX NAME)

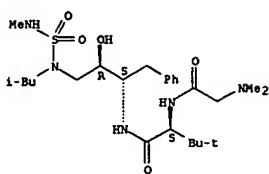
Absolute stereochemistry.



RN 160676-89-1 CAPLUS

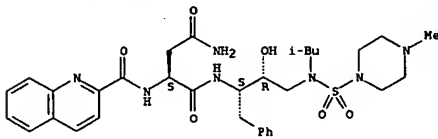
CN L-Valinamide, N,N-dimethylglycyl-N-[2-hydroxy-3-[[[methylamino)sulfonyl] (2-methylpropyl)amino]-1-(phenylmethyl)propyl]-3-methyl-, [R-(R*,S*)] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



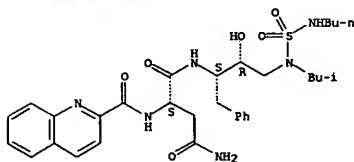
RN 160676-90-4 CAPLUS
CN Butanediamide, N1-[3-[[[4-methyl-1-piperazinyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



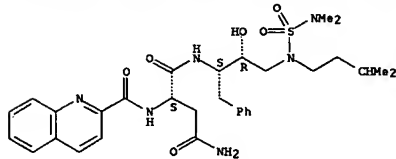
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CN Butanediamide, N1-[3-[[[butylamino)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



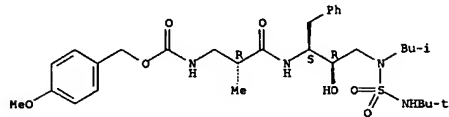
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CN Butanediamide, N1-[3-[[[[(1,1-dimethylethyl)amino)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



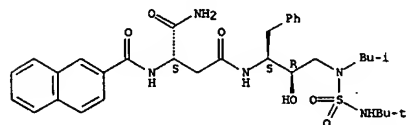
RN 160677-17-8 CAPLUS
CN 11-Thia-2,6,10,12-tetraazatetradecanoic acid, 8-hydroxy-4,13,13-trimethyl-10-(2-methylpropyl)-5-oxo-7-(phenylmethyl)-, (4-methoxyphenyl)methyl ester, 11,11-dioxide, [4R-(4R*,7S*,8R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



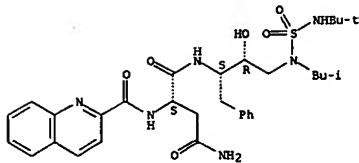
RN 160677-18-9 CAPLUS
CN Butanediamide, N4-[(1S,2R)-3-[[[[(1,1-dimethylethyl)amino)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-naphthalenylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



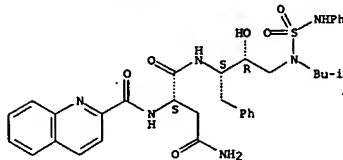
RN 160677-27-0 CAPLUS
CN 3-Thia-2,4,8,11-tetraazadodecan-12-oic acid, 10-(1,1-dimethylethyl)-6-hydroxy-2-methyl-4-(3-methylbutyl)-9-oxo-7-(phenylmethyl)-, phenylmethyl ester, 3,3-dioxide, [6R-(6R*,7S*,10S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



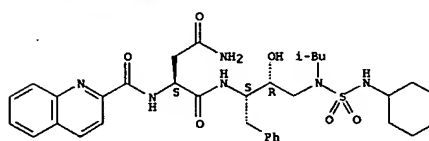
RN 160676-93-7 CAPLUS
CN Butanediamide, N1-[2-hydroxy-3-[(2-methylpropyl)[(phenylamino)sulfonyl]amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



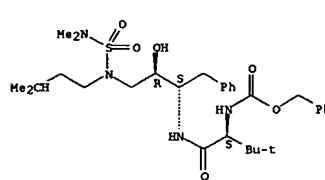
RN 160676-94-8 CAPLUS
CN Butanediamide, N1-[3-[[[cyclohexylamino)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



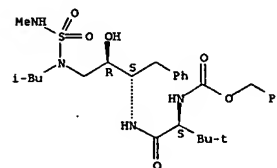
RN 160677-16-7 CAPLUS
CN Butanediamide, N1-[3-[[[[(dimethylamino)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



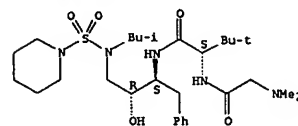
RN 160677-28-1 CAPLUS
CN 3-Thia-2,4,8,11-tetraazadodecan-12-oic acid, 10-(1,1-dimethylethyl)-6-hydroxy-4-(2-methylpropyl)-9-oxo-7-(phenylmethyl)-, phenylmethyl ester, 3,3-dioxide, [6R-(6R*,7S*,10S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 160677-29-2 CAPLUS
CN L-Valinamide, N,N-dimethylglycyl-N-[2-hydroxy-3-[(2-methylpropyl)(1-piperidinyl)sulfonyl]amino]-1-(phenylmethyl)propyl]-3-methyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

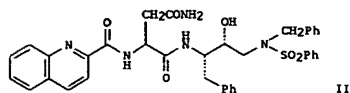
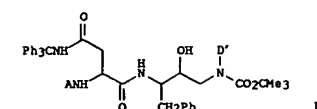
Absolute stereochemistry.



L12 ANSWER 114 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1995:293723 CAPLUS
 DOCUMENT NUMBER: 122:81141
 TITLE: Preparation of heterocyclaryl-sulfonamide inhibitors of HIV-aspartyl protease
 INVENTOR(S): Tung, Roger D.; Murcko, Mark A.; Bhisetti, Govinda Rao
 PATENT ASSIGNEE(S): Vertex Pharmaceuticals Inc., USA
 SOURCE: PCT Int. Appl., 291 pp.
 CODEN: PIXX02
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 5
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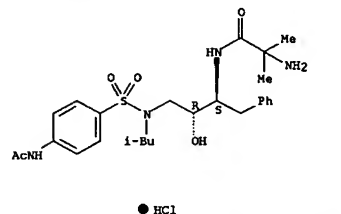
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RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
LT 3302	B	19950626	LT 1993-917	19930901
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OTHER SOURCE(S):	MARPAT 122:81141		EP 1993-921428	A3 19930907
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L12 ANSWER 114 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

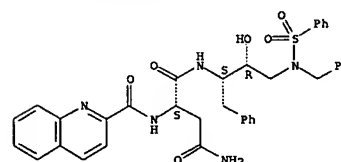


AB Title compds. A(B)NHCH(D)CH(OH)CH2N(D')SO2E (A = H, Het, R1-Het, (substituted)R1-C1-6 alkyl, (substituted) R1-C2-6 alkenyl wherein R1 = CO, SO2, COCO, O2C, etc., Het = C5-7 cycloalkyl, C5-7 cycloalkenyl, C6-10 aryl, (substituted) 5-7-membered heterocyclyl; R2 = H, (Ar)-C1-3 alkyl; B = NR2CR3CO, null wherein R3 = H, (substituted)Het or C1-6 alkyl or C2-6 alkenyl or C3-6 cycloalkyl or C5-6 cycloalkenyl; x = 0,1; D, D' = Ar, (substituted) C1-4 alkyl wherein Ar = Ph, (substituted) 3-6-membered carbocyclyl or 5-6-membered heterocyclyl; E = Het-O, Het-Het, (substituted) C1-6 alkyl or C2-6 alkenyl, C3-6 carbocyclyl) useful also against viral infection of HIV-2, HIV-2, or HTLV, are prepared 4,3-(AcNH)FC6H3SO2Cl and syn-1 (A = quinolin-2-ylcarbonyl, D' = Me2CHCH2) (preparation given) in CH2Cl2 was treated with F3CO2H followed by NaHCO3 and 4-FC6H4SO2Cl to give the title compound II which inhibited HIV-1 protease with IC50 of <0.1 nM.
 IT 160233-13-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, in preparation of HIV-1 protease inhibitors)
 RN 160233-13-6 CAPLUS
 CN Propanamide, N-[(1S,2R)-3-[[[4-(acetamino)phenyl]sulfonyl] (2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-amino-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

L12 ANSWER 114 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

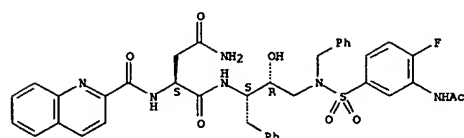


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 (preparation of as HIV-1 protease inhibitor)
 RN 160230-05-7 CAPLUS
 CN Butanediamide, N1-[(1S,2R)-3-[[[2-(acetamino)-4-fluorophenyl]sulfonyl] (phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

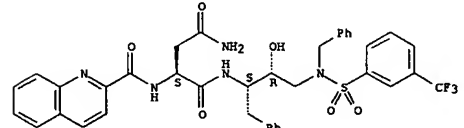


RN 160230-06-8 CAPLUS
 CN Butanediamide, N1-[(1S,2R)-3-[[[2-(acetamino)-4-fluorophenyl]sulfonyl] (phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

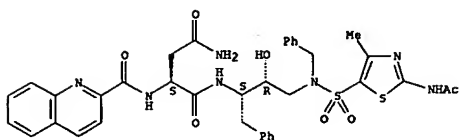
L12 ANSWER 114 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 160230-07-9 CAPLUS
 CN Butanediamide, N1-[(1S,2R)-3-[[[3,5-dimethyl-4-isoxazolyl]sulfonyl] (phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.
 RN 160230-08-0 CAPLUS
 CN Butanediamide, N1-[(1S,2R)-2-hydroxy-1-(phenylmethyl)-3-[(phenylmethyl)[[3-(trifluoromethyl)phenyl]sulfonyl]amino]propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.
 RN 160230-09-1 CAPLUS
 CN Butanediamide, N1-[(1S,2R)-3-[[[2-(acetamino)-4-methyl-5-thiazolyl]sulfonyl] (phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.

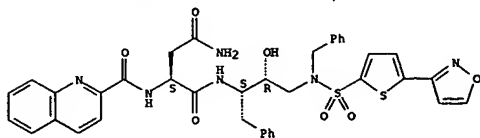


RN 160230-09-1 CAPLUS
 CN Butanediamide, N1-[(1S,2R)-3-[[[2-(acetamino)-4-methyl-5-thiazolyl]sulfonyl] (phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



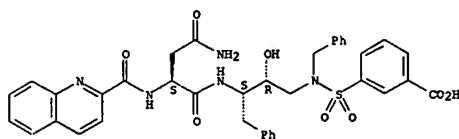
RN 160230-10-4 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[[[5-(3-isoxazolyl)-2-thienyl]sulfonyl](phenylmethyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylnylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



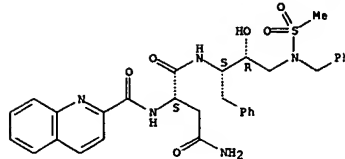
RN 160230-11-5 CAPLUS
CN Benzoic acid, 3-[[[(2R,3S)-3-[[[(2S)-4-amino-1,4-dioxo-2-[(2-quinolinylnylcarbonyl)amino]butyl]amino]-2-hydroxy-4-phenylbutyl](phenylmethyl)amino]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



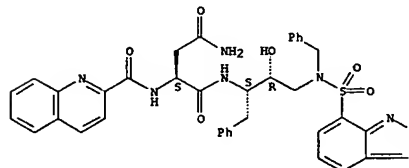
RN 160230-12-6 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[[[5-(3-isoxazolyl)-2-thienyl]sulfonyl](phenylmethyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylnylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



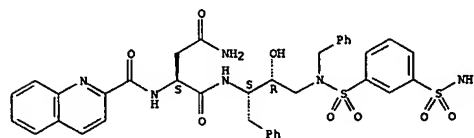
RN 160230-13-7 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[[[5-(3-isoxazolyl)-2-thienyl]sulfonyl](phenylmethyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylnylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



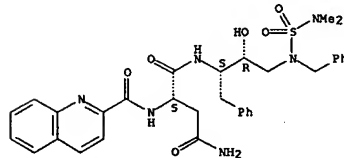
RN 160230-14-8 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[[[5-(3-isoxazolyl)-2-thienyl]sulfonyl](phenylmethyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylnylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



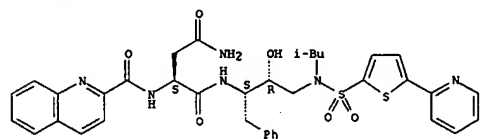
RN 160230-15-9 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[[[5-(3-isoxazolyl)-2-thienyl]sulfonyl](phenylmethyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylnylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



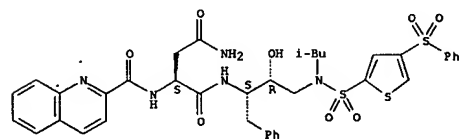
RN 160230-16-0 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[[[5-(3-isoxazolyl)-2-thienyl]sulfonyl](phenylmethyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylnylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



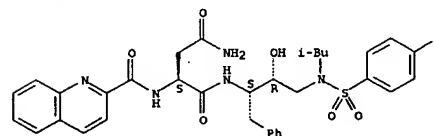
RN 160230-17-1 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[[[5-(3-isoxazolyl)-2-thienyl]sulfonyl](phenylmethyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylnylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



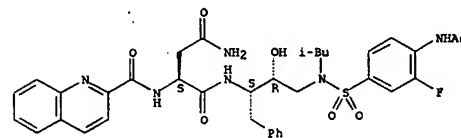
RN 160230-18-2 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[[[5-(3-isoxazolyl)-2-thienyl]sulfonyl](phenylmethyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylnylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



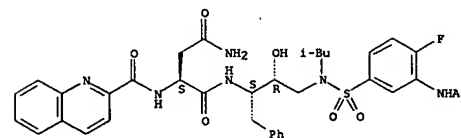
RN 160230-19-3 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[[[5-(3-isoxazolyl)-2-thienyl]sulfonyl](phenylmethyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylnylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



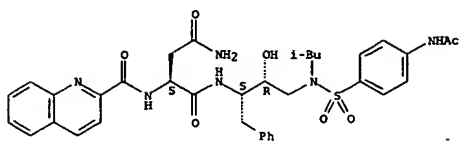
RN 160230-20-6 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[[[5-(3-isoxazolyl)-2-thienyl]sulfonyl](phenylmethyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylnylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 160230-21-7 CAPLUS
CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[[[5-(3-isoxazolyl)-2-thienyl]sulfonyl](phenylmethyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylnylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

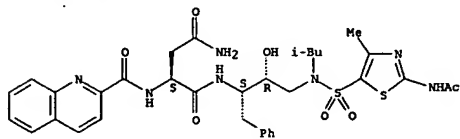
Absolute stereochemistry.



RN 160230-22-8 CAPLUS

CN Butanediamide, N1-[(1S,2R)-3-[[[2-(acetamino)-4-methyl-5-thiazolyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

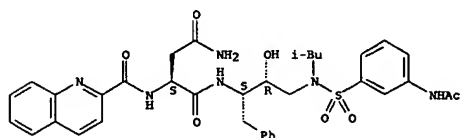
Absolute stereochemistry.



RN 160230-23-9 CAPLUS

CN Butanediamide, N1-[(1S,2R)-3-[[[3-(acetamino)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 160230-24-0 CAPLUS

CN Butanediamide, N1-[(1S,2R)-3-[[[2,1,3-benzoxadiazol-4-ylsulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CRN 76-05-1

CMF C2 H F3 O2



RN 160230-29-5 CAPLUS

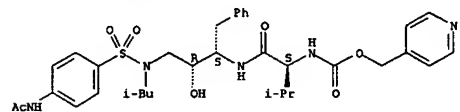
CN Carbamic acid, [(1S)-1-[[[(1S,2R)-3-[[[4-(acetamino)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylpropyl]-, 4-pyridinylmethyl ester, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 160230-28-4

CMF C34 H45 N5 O7 S

Absolute stereochemistry.



CM 2

CRN 76-05-1

CMF C2 H F3 O2



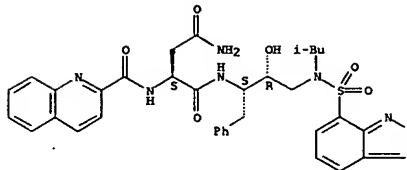
RN 160230-31-9 CAPLUS

CN 3-Thia-2,4,8,11-tetraazadodecan-12-oic acid, 6-hydroxy-2-methyl-10-(1-methylethyl)-4-(2-methylpropyl)-9-oxo-7-(phenylmethyl)-, 2-pyridinylmethyl ester, 3,3-dioxide, (6R,7S,10S)-, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 160230-30-8

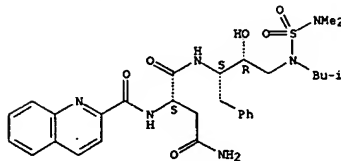
CMF C28 H43 N5 O6 S



RN 160230-25-1 CAPLUS

CN Butanediamide, N1-[(1S,2R)-3-[[[2-(acetamino)-4-methyl-5-thiazolyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 160230-27-3 CAPLUS

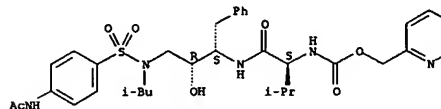
CN Carbamic acid, [(1S)-1-[[[(1S,2R)-3-[[[4-(acetamino)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylpropyl]-, 2-pyridinylmethyl ester, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 160230-26-2

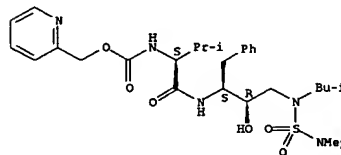
CMF C34 H45 N5 O7 S

Absolute stereochemistry.



CM 2

Absolute stereochemistry.



CM 2

CRN 76-05-1

CMF C2 H F3 O2



RN 160230-33-1 CAPLUS

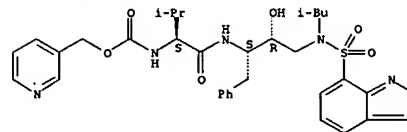
CN Carbamic acid, [(1S)-1-[[[(1S,2R)-3-[[[2,1,3-benzoxadiazol-4-ylsulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylpropyl]-, 3-pyridinylmethyl ester, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 160230-32-0

CMF C32 H40 N6 O7 S

Absolute stereochemistry.



CM 2

CRN 76-05-1

CMF C2 H F3 O2

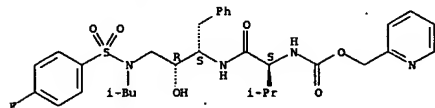


RN 160230-35-3 CAPLUS
CN Carbamic acid, [(1S)-1-[[[(1S,2R)-3-[[[4-(fluorophenyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylpropyl]-, 2-pyridinylmethyl ester, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 160230-34-2
CMF C32 H41 F N4 O6 S

Absolute stereochemistry.



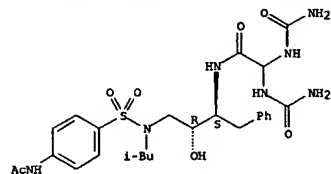
CM 2

CRN 76-05-1
CMF C2 H F3 O2



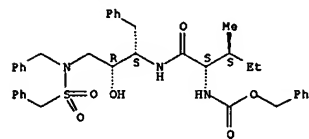
RN 160230-49-9 CAPLUS
CN Ethanediamide, N-[(1S,2R)-3-[[[4-(acetamido)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



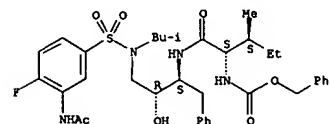
RN 160231-88-9 CAPLUS
CN 2-Thia-3,7,10-triazadecan-11-ylidene acid, 5-hydroxy-9-[(1S)-1-methylpropyl]-8-oxo-1-phenyl-3,6-bis(phenylmethyl)-, phenylmethyl ester, 2,2-dioxido, (5R,6S,9S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



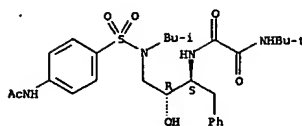
RN 160231-89-0 CAPLUS
CN Carbamic acid, [(1S,2S)-1-[[[(1S,2R)-3-[[[3-(acetamido)-4-fluorophenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylbutyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



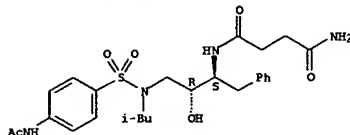
RN 160231-90-3 CAPLUS
CN 2-Quinoxalinecarboxamide, N-[(1S,2S)-1-[[[(1S,2R)-3-[[[3-(acetamido)-4-fluorophenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylbutyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



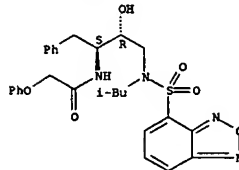
RN 160230-50-2 CAPLUS
CN Butanediamide, N-[(1S,2R)-3-[[[4-(acetamido)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



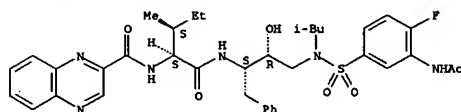
RN 160230-64-8 CAPLUS
CN Acetamide, N-[(1S,2R)-3-[(2,1,3-benzoxadiazol-4-yl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-phenoxyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



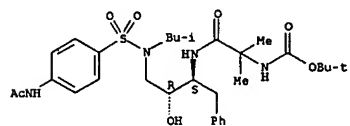
RN 160230-72-8 CAPLUS
CN Acetamide, N-[(1S,2R)-3-[[[4-(acetamido)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2,2-bis[(aminocarbonyl)amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



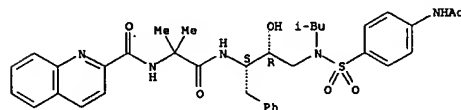
RN 160231-91-4 CAPLUS
CN Carbamic acid, [2-[[[(1S,2R)-3-[[[4-(acetamido)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-1,1-dimethyl-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



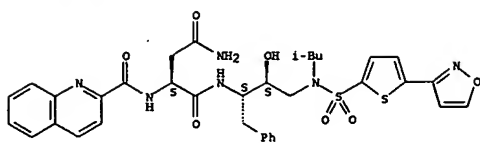
RN 160231-92-5 CAPLUS
CN 2-Quinoxalinecarboxamide, N-2-[[[(1S,2R)-3-[[[4-(acetamido)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-1,1-dimethyl-2-oxoethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



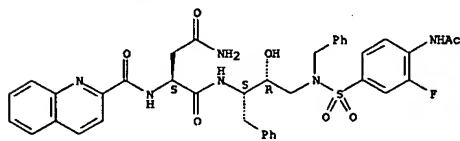
RN 160231-93-6 CAPLUS
CN Butanediamide, N1-[(1S,2S)-2-hydroxy-3-[[[5-(3-isoxazolyl)-2-thienyl]sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



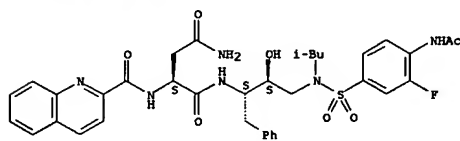
RN 160231-96-9 CAPLUS
CN Butanediolamide, N1-[(1S,2R)-3-[[[4-(acetylamino)-3-fluorophenyl]sulfonyl](phenylmethyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 160333-42-6 CAPLUS
CN Butanediolamide, N1-[(1S,2S)-3-[[[4-(acetylamino)-3-fluorophenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



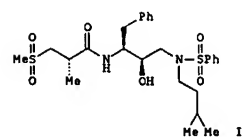
RN 160333-43-7 CAPLUS
CN Butanediolamide, N1-[(1S,2S)-3-[[[2-(1,3-benzoxadiazol-4-yl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

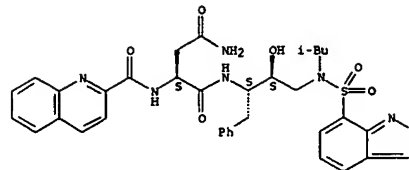
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ACCESSION NUMBER: 1995:3862 CAPLUS
DOCUMENT NUMBER: 122:55727
TITLE: (Sulfonylalkylamino) (hydroxyethylamino) sulfonamides as HIV protease inhibitors
INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel; Decrescenzo, Gary A.; Preskos, John N.
PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Monsanto Co.
SOURCE: PCT Int. Appl., 107 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
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WO 9404493	A1	19940303	WO 1993-US7816	19930824
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ES 2112430	T3	19980401	ES 1993-920214	19930824
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OTHER SOURCE(S): MARPAT 122:55727
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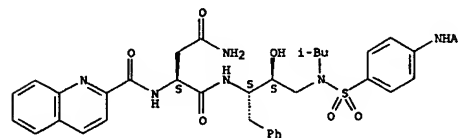


AB The title compds. R5(O)(CH2)2C(R21)(R20)CH(R1)C(Y)N(R6)CH(R2)C(OH)CH2N(R3)S(O)(R4) [R = H, alkyl, alkenyl, alkynyl, heteroaryl, cycloalkyl, etc.; R1, R20, R21 = H, CH2SO2NH2, CH2CO2Me, CO2Me, CONH2, etc.; R2 = (un)substituted alkyl, aryl, cycloalkyl, alkyl, etc.; R3 = H, alkyl, haloalkyl, alkenyl, alkynyl, etc.; R4 = alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, cycloalkyl, etc.; R6 = H, alkyl; Y = O, S,



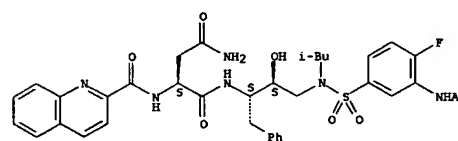
RN 160333-44-8 CAPLUS
CN Butanediolamide, N1-[(1S,2S)-3-[[[4-(acetylamino)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



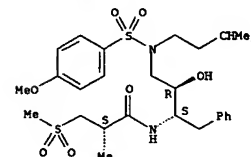
RN 160333-45-9 CAPLUS
CN Butanediolamide, N1-[(1S,2S)-3-[[[3-(acetylamino)-4-fluorophenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



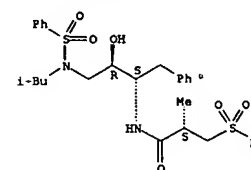
L12 ANSWER 115 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
(un)substituted NH; t = 0, 1, x = 0-2], useful as HIV protease inhibitors for the treatment of AIDS, are prepd. Thus, sulfonamide I was prepd. and demonstrated IC50 against HIV protease of 3 nM.
IT 157566-76-2 157566-77-3 157566-78-4
157566-79-5 157566-80-6 157566-81-9
157566-82-0 157566-83-1 157566-84-2
157566-85-3 157566-86-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(HIV protease inhibitor)
RN 157566-76-2 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[[[4-(methoxyphenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



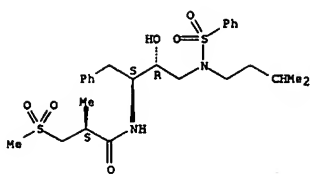
RN 157566-77-3 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[[[4-(methoxyphenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



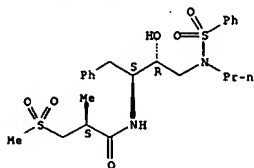
RN 157566-78-4 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[[[4-(methoxyphenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



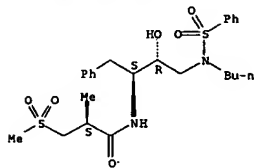
RN 157566-79-5 CAPLUS
CN Propanamide, N-[(2-hydroxy-1-(phenylmethyl)-3-[(phenylsulfonyl)propylamino]propyl)-2-methyl-3-(methylsulfonyl)-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

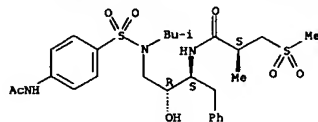


RN 157566-80-8 CAPLUS
CN Propanamide, N-[(3-[butyl(phenylsulfonyl)amino]-2-hydroxy-1-(phenylmethyl)propyl)-2-methyl-3-(methylsulfonyl)-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

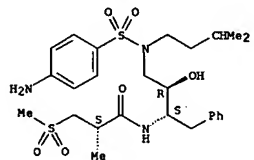


RN 157566-81-9 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)



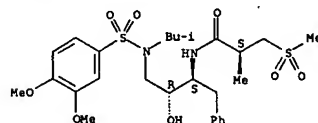
RN 157566-85-3 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-aminophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 157566-86-4 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(3,4-dimethoxyphenyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

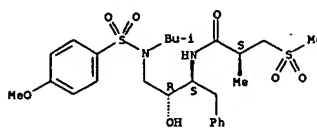


IT 157566-76-2P 157566-77-3P 157566-78-4P
157566-79-5P 157566-80-8P 157566-81-9P
157566-82-0P 157566-83-1P 157566-84-2P
157566-85-3P 157566-86-4P 157566-87-5P
RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as HIV protease inhibitor)

RN 157566-76-2 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

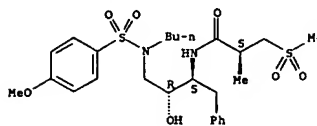
(2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



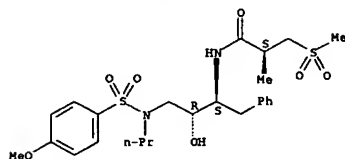
RN 157566-82-0 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl]amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 157566-83-1 CAPLUS
CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl]propylamino]-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

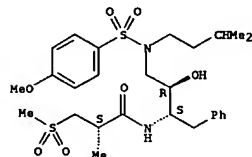


RN 157566-84-2 CAPLUS
CN Propanamide, N-[(3-[(4-(acetamido)phenyl)sulfonyl](2-methylpropyl)amino)-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

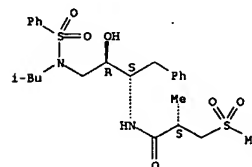
(2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



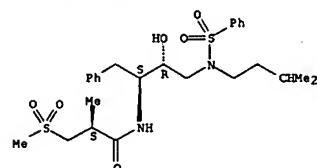
RN 157566-77-3 CAPLUS
CN Propanamide, N-[(2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl)-2-methyl-3-(methylsulfonyl)-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 157566-78-4 CAPLUS
CN Propanamide, N-[(2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl)-2-methyl-3-(methylsulfonyl)-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

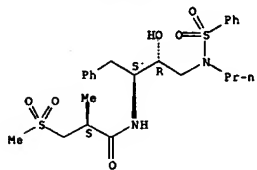
Absolute stereochemistry.



RN 157566-79-5 CAPLUS

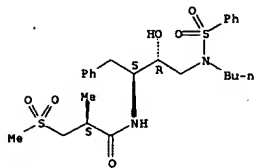
L12 ANSWER 115 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 CN Propanamide, N-[2-hydroxy-1-(phenylmethyl)-3-[(phenylsulfonyl)propylamino]propyl]-2-methyl-3-(methylsulfonyl)-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



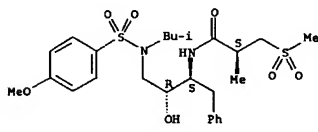
RN 157566-80-8 CAPLUS
 CN Propanamide, N-[3-[butyl(phenylsulfonyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



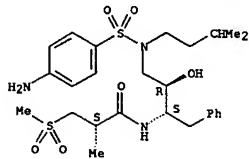
RN 157566-81-9 CAPLUS
 CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[[4-(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



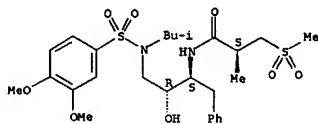
RN 157566-82-0 CAPLUS

L12 ANSWER 115 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 Absolute stereochemistry.



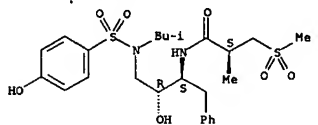
RN 157566-86-4 CAPLUS
 CN Propanamide, N-[(1S,2R)-3-[[3-(4-dimethoxyphenyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



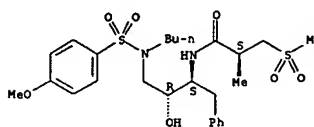
RN 157566-87-5 CAPLUS
 CN Propanamide, N-[2-hydroxy-3-[[4-(4-hydroxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



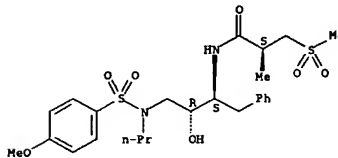
L12 ANSWER 115 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 CN Propanamide, N-[(1S,2R)-3-[butyl[(4-methoxyphenyl)sulfonyl]amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



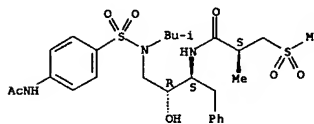
RN 157566-83-1 CAPLUS
 CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[[4-(4-methoxyphenyl)sulfonyl]propylamino]-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 157566-84-2 CAPLUS
 CN Propanamide, N-[(1S,2R)-2-hydroxy-3-[[4-(4-methoxyphenyl)sulfonyl]propylamino]-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



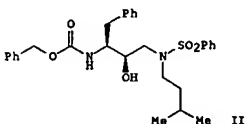
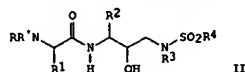
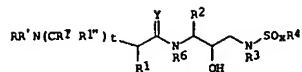
RN 157566-85-3 CAPLUS
 CN Propanamide, N-[(1S,2R)-3-[[4-(4-aminophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2-methyl-3-(methylsulfonyl)-, (2S)- (9CI) (CA INDEX NAME)

L12 ANSWER 116 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1994:701324 CAPLUS
 DOCUMENT NUMBER: 121:301324
 TITLE: Preparation of hydroxyethylamino sulfonamides useful as retroviral protease inhibitors
 INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel; Decrescenzo, Gary A.; Freskos, John N.
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Monsanto Co.
 SOURCE: PCT Int. Appl., 198 pp.
 CODEN: P10X02
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9404492	A1	19940303	WO 1993-US7814	19930824
W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
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JP 08501288	T2	19960213	JP 1994-506530	19930824
JP 3657002	B2	20050608		
AU 680635	B2	19970807	AU 1994-53474	19930824
AU 9453474	A1	19940315		
EP 810209	A2	19971203	EP 1997-113434	19930824
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ES 2177868	T3	20021216	ES 1997-113434	19930824
US 6060476	A	20000509	US 1994-204827	19940302
US 5968942	A	19991019	US 1994-294468	19940823
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US 6417387	B2	20020709		
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US 2003191319	A1	20031009	US 2002-157019	20020530
US 6646010	B2	20031111		
US 2004044047	A1	20040304	US 2002-199481	20020722
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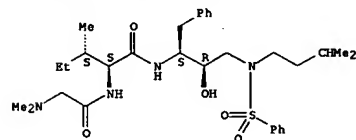
L12 ANSWER 116 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 PRIORITY APPLN. INFO.:
 US 1992-934984 A2 19920825
 EP 1993-923714 A3 19930824
 US 1993-110911 A2 19930824
 WO 1993-057814 W 19930824
 US 1994-204827 A2 19940302
 US 1994-204872 B2 19940302
 US 1994-294468 A1 19940823
 WO 1994-059139 W 19940823
 US 1995-451090 A3 19950525
 US 1999-288080 A1 19990408
 US 2001-798255 A1 20010305
 US 2002-157019 A1 20020530
 US 2002-199481 A3 20020722

OTHER SOURCE(S): MARPAT 121:301324
 G1



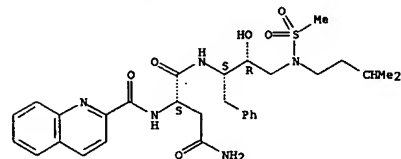
AB Title compds. [I and II; R = H, alkoxycarbonyl, aralkoxycarbonyl, alkylcarbonyl, cycloalkylcarbonyl, heterocyclylcarbonyl, heteroaryloxyalkyl, hydroxyalkyl, aryl, alkyl, alkenyl, alkynyl, substituted aminocarbonyl, etc.; R' = H, R3, R''SO2; RR'N = heterocyclyl, heteroaryl; R1 = H, CH2SO2NH2, CH2CO2Me, CO2Me, CONH2, CH2SH, alkyl, haloalkyl, alkenyl, alkynyl, cycloalkyl, amino acid side chains, etc.; R1', R1'' = H, R3; 1 of R1', R1'' together with R1 form a cycloalkyl radical; R2 = (substituted) alkyl, aryl, cycloalkyl, cycloalkylalkyl, aralkyl; R3 = H, alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl, heterocycloalkyl, heteroaryl, aryl, aralkyl, heteroalkyl, (substituted) aminoalkyl, etc.; R4 = R3, except H; R6 = H, alkyl; x = 0-2; t = 0, 1; Y = O, S, imino], were prepared Thus, title compound (III, solution phase preparation given) inhibited HIV protease with IC50 = 16 nM.
 IT 159005-68-2P 159005-69-3P 159005-70-6P
 159005-89-7P 159005-90-0P 159005-91-1P
 159005-92-2P 159005-93-3P 159005-94-4P
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L12 ANSWER 116 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



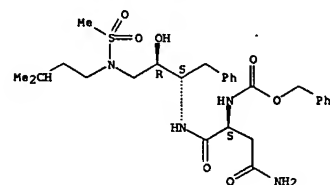
RN 159005-89-7 CAPLUS
 CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (methylsulfonyl) amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl) amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159005-90-0 CAPLUS
 CN 2-Thia-3,7,10-triazaundecan-11-oic acid, 9-(2-amino-2-oxoethyl)-5-hydroxy-3-(3-methylbutyl)-8-oxo-6-(phenylmethyl)-, phenylmethyl ester, 2,2-dioxide, (5R,6S,9S)- (9CI) (CA INDEX NAME)

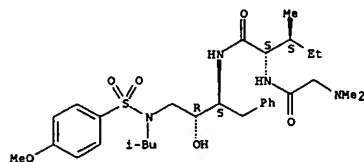
Absolute stereochemistry.



RN 159005-91-1 CAPLUS
 CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]-2-[(2-quinolinylcarbonyl) amino]-, (2S)- (9CI) (CA INDEX NAME)

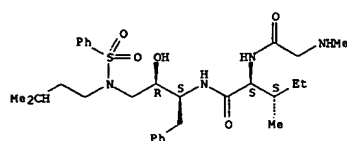
L12 ANSWER 116 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 159006-23-2P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (prepn. of, as HIV protease inhibitor)
 RN 159005-68-2 CAPLUS
 CN L-Isoleucinamide, N,N-dimethylglycyl-N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl) sulfonyl] (2-methylpropyl) amino]-1-(phenylmethyl)propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159005-69-3 CAPLUS
 CN L-Isoleucinamide, N-methylglycyl-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

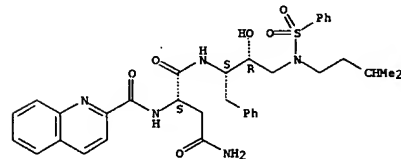


RN 159005-70-6 CAPLUS
 CN L-Isoleucinamide, N,N-dimethylglycyl-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

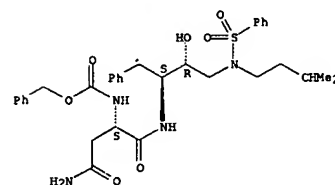
L12 ANSWER 116 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Absolute stereochemistry.



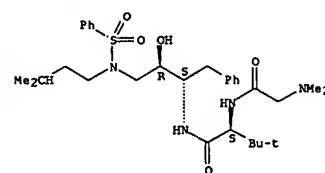
RN 159005-92-2 CAPLUS
 CN Carbamic acid, [(1S)-3-amino-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl] amino] carbonyl]-3-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159005-93-3 CAPLUS
 CN L-Valinamide, N,N-dimethylglycyl-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI) (CA INDEX NAME)

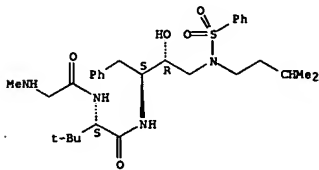
Absolute stereochemistry.



RN 159005-94-4 CAPLUS
 CN L-Valinamide, N-methylglycyl-N-[(1S,2R)-2-hydroxy-3-[(3-

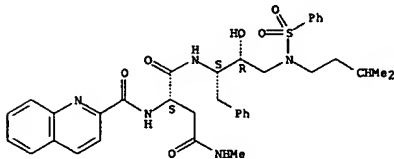
L12 ANSWER 116 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 methylbutyl (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



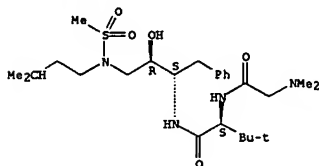
RN 159005-95-5 CAPLUS
 CN Butanediamide, N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]-N4-methyl-2-[(2-quinolinylcarbonyl) amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

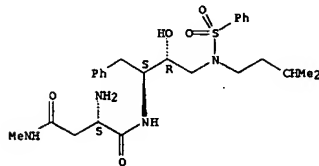


RN 159006-07-2 CAPLUS
 CN L-Valinamide, N,N-dimethylglycyl-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (methylsulfonyl) amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



L12 ANSWER 116 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



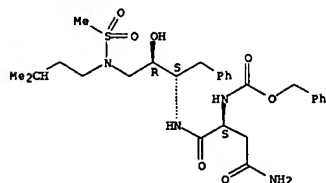
● HCl

IT 159005-90-0P 159005-92-2P 159006-05-0P
 159006-06-1P 159006-08-3P 159006-09-4P
 159006-10-7P 159006-11-8P 159006-12-9P
 159006-13-0P 159006-14-1P 159006-15-2P
 159006-16-3P 159006-17-4P 159006-18-5P
 159006-22-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as intermediate for HIV protease inhibitor)

RN 159005-90-0 CAPLUS
 CN 2-Thia-3,7,10-triazaundecan-11-oic acid, 9-(2-amino-2-oxoethyl)-5-hydroxy-3-[(3-methylbutyl)-8-oxo-6-(phenylmethyl)-, phenylmethyl ester, 2,2-dioxide, (5R,6S,9S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



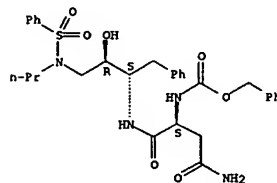
RN 159005-92-2 CAPLUS
 CN Carbamic acid, [(1S)-3-amino-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]amino]carbonyl]-3-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 116 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

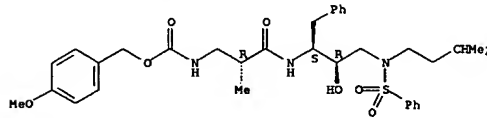
RN 159006-21-0 CAPLUS
 CN Carbamic acid, [(1S)-3-amino-1-[[[(1S,2R)-2-hydroxy-1-(phenylmethyl)-3-[(phenylsulfonyl)propylamino]propyl]amino]carbonyl]-3-oxopropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159006-23-2 CAPLUS
 CN Carbamic acid, [(2R)-3-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]amino]-2-methyl-3-oxopropyl]-, (4-methoxyphenyl)methyl ester (9CI) (CA INDEX NAME)

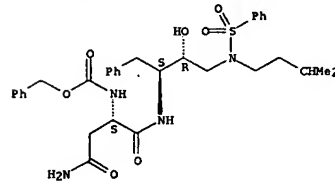
Absolute stereochemistry.



IT 159006-49-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as HIV protease inhibitor intermediate)
 RN 159006-49-2 CAPLUS
 CN Butanediamide, 2-amino-N1-[(2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]-N4-methyl-, monohydrochloride, [1S-[1R*(R*),2S*]]- (9CI) (CA INDEX NAME)

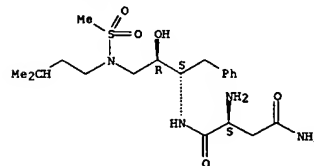
Absolute stereochemistry.

L12 ANSWER 116 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



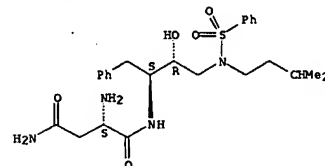
RN 159006-05-0 CAPLUS
 CN Butanediamide, 2-amino-N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (methylsulfonyl) amino]-1-(phenylmethyl)propyl]-, (2S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



RN 159006-06-1 CAPLUS
 CN Butanediamide, 2-amino-N1-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]-, (2S)- (9CI)
 (CA INDEX NAME)

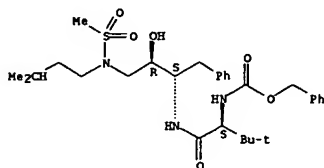
Absolute stereochemistry.



RN 159006-08-3 CAPLUS
 CN 2-Thia-3,7,10-triazaundecan-11-oic acid, 9-(1,1-dimethylethyl)-5-hydroxy-3-

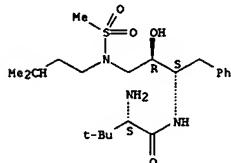
L12 ANSWER 116 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
(3-methylbutyl)-8-oxo-6-(phenylmethyl)-, phenylmethyl ester, 2,2-dioxide,
(5R,6S,9S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



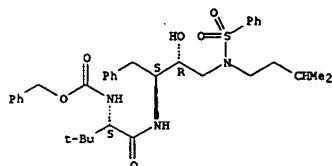
RN 159006-09-4 CAPLUS
CN Butanamide, 2-amino-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-,
(2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

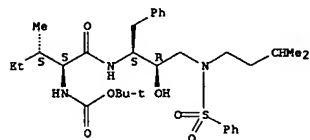


RN 159006-10-7 CAPLUS
CN Carbamic acid, [(1S)-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-2,2-dimethylpropyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

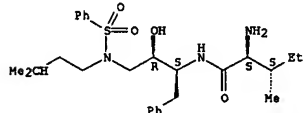


L12 ANSWER 116 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 159006-14-1 CAPLUS
CN Pentanamide, 2-amino-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-methyl-,
monohydrochloride, (2S,3S)- (9CI) (CA INDEX NAME)

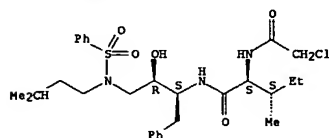
Absolute stereochemistry.



• HCl

RN 159006-15-2 CAPLUS
CN Pentanamide, 2-[(chloroacetyl)amino]-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3-methyl-,
(2S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



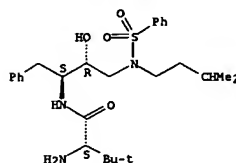
RN 159006-16-3 CAPLUS
CN Carbamic acid, [(1S,2S)-1-[[[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylbutyl]-, phenylmethyl ester
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 116 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

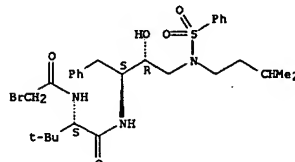
RN 159006-11-8 CAPLUS
CN Butanamide, 2-amino-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-,
(2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 159006-12-9 CAPLUS
CN Butanamide, 2-[(bromoacetyl)amino]-N-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-,
(2S)- (9CI) (CA INDEX NAME)

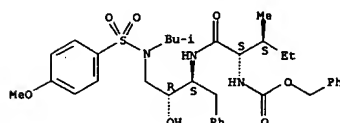
Absolute stereochemistry.



RN 159006-13-0 CAPLUS
CN Carbamic acid, [(1S,2S)-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-2-methylbutyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

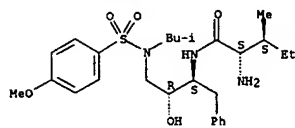
Absolute stereochemistry.

L12 ANSWER 116 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



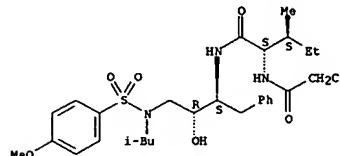
RN 159006-17-4 CAPLUS
CN Pentanamide, 2-amino-N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-3-methyl-,
(2S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



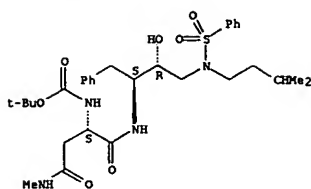
RN 159006-18-5 CAPLUS
CN Pentanamide, 2-[(chloroacetyl)amino]-N-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-3-methyl-,
(2S,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



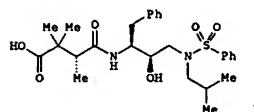
RN 159006-22-1 CAPLUS
CN Carbamic acid, [(1S)-1-[[[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]carbonyl]-3-(methylamino)-3-oxopropyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



ACCESSION NUMBER: 1994:579258 CAPLUS
 DOCUMENT NUMBER: 121:179258
 TITLE: N-(alkanoylamino-2-hydroxypropyl)sulfonamides useful as HIV protease inhibitors
 INVENTOR(S): Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel; Decrescenzo, Gary A.; Freskos, John N.
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Monsanto Co.
 SOURCE: PCT Int. Appl., 103 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9404491	A1	19940303	WO 1993-US7815	19930825
V: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LX, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
EP 656886	A1	19950614	EP 1993-920213	19930824
EP 656886	B1	19970625		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 08500824	T2	19960130	JP 1993-506531	19930824
AT 154800	E	19970715	AT 1993-920213	19930824
ES 2103488	T3	19970916	ES 1993-920213	19930824
AU 674702	B2	19970109	AU 1993-50819	19930825
AU 9350819	A1	19940315		
RU 2130016	C1	19990510		
NO 9500670	A	19950222	RU 1995-106823	19930825
FI 9500843	A	19950223	NO 1995-670	19950222
PRIORITY APPLN. INFO.:				
OTHER SOURCE(S): MARPAT 121:179258				
GI				
WO 1993-US7815				
W 19930825				



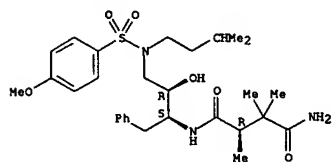
AB The title compds. R33(R34)X1C(Y1)(CH2)tc(R31)(R32)C(R30)(R1)C(Y)N(R6)C(R2)HC(OH)HCH2N(R3)S(O)R4 [R1 = H, CH2SO2NH2, CO2Me, CONHMe, CONMe2, etc.; R2 = alkyl, aryl, cycloalkyl, (un)substituted cycloalkylalkyl and arylalkyl; R3 = H, alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl, etc.; R4 = alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl etc.; R6 = H, alkyl; R30-R32 = R1; R1R3OR31 = cycloalkyl; R1R3OR32C = cycloalkyl; R33, R34 = H, R3; R33R34X1

L12 ANSWER 117 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 = cycloalkyl, aryl, heterocyclyl, etc.; X1 = O, N, CR17; R17 = H, alkyl; Y, Y1 = O, S, NR15; R15 = H, R3; t = O, 1; x = 0-2], useful as HIV protease inhibitors for the treatment of AIDS, are prepd. Thus, sulfonamide I was prepd. and demonstrated IC50 against HIV protease of 1 nmol.

IT 157446-05-4 157446-06-5 157446-07-6
 157446-08-7 157446-09-8 157474-44-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (HIV protease inhibitor)

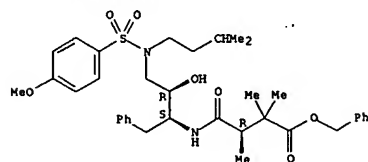
RN 157446-05-4 CAPLUS
 CN Butanediamide, N4-[(1S,2R)-2-hydroxy-3-[[[(4-methoxyphenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



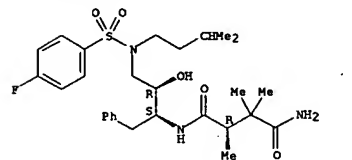
RN 157446-06-5 CAPLUS
 CN Butanoic acid, 4-[[[3-[[[(4-methoxyphenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



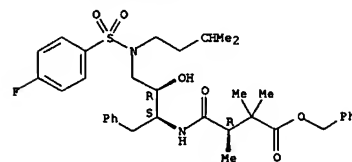
RN 157446-07-6 CAPLUS
 CN Butanediamide, N4-[(1S,2R)-3-[[[(4-fluorophenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]amino]-2-hydroxy-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



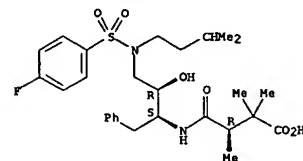
RN 157446-08-7 CAPLUS
 CN Butanoic acid, 4-[[[3-[[[(4-fluorophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



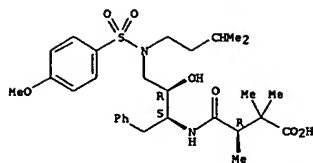
RN 157446-09-8 CAPLUS
 CN Butanoic acid, 4-[[[3-[[[(4-fluorophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



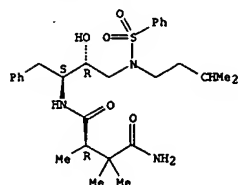
RN 157474-44-7 CAPLUS
 CN Butanoic acid, 4-[[[3-[[[(4-methoxyphenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 157445-96-0P 157445-97-1P 157445-98-2P
 157445-99-3P 157446-00-9P 157446-01-0P
 157446-02-1P 157446-03-2P 157446-04-3P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of, as HIV protease inhibitor)
 RN 157445-96-0 CAPLUS
 CN Butanediamide, N4-[(1S,2R)-2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

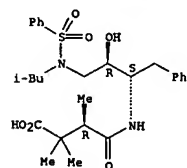


RN 157445-97-1 CAPLUS
 CN Butanoic acid, 4-[[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

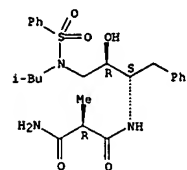
L12 ANSWER 117 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 CN Butanoic acid, 4-[[2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



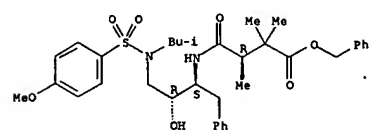
RN 157446-01-0 CAPLUS
 CN Propanediamide, N-[[2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

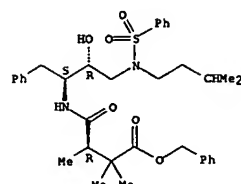


RN 157446-02-1 CAPLUS
 CN Butanoic acid, 4-[[2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

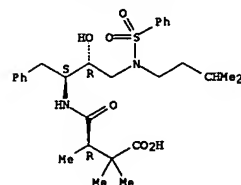


RN 157446-03-2 CAPLUS



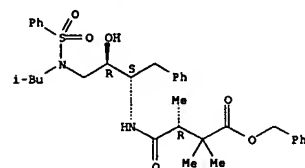
RN 157445-98-2 CAPLUS
 CN Butanoic acid, 4-[[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 157445-99-3 CAPLUS
 CN Butanoic acid, 4-[[2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

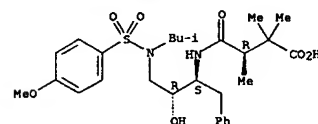
Absolute stereochemistry.



RN 157446-00-9 CAPLUS

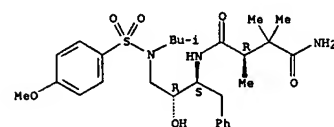
L12 ANSWER 117 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 CN Butanoic acid, 4-[[2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



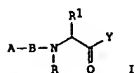
RN 157446-04-3 CAPLUS
 CN Butanediamide, N4-[(1S,2R)-2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L12 ANSWER 118 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1992:551397 CAPLUS
 DOCUMENT NUMBER: 117:151397
 TITLE: Preparation of peptides as kininogenase inhibitors.
 INVENTOR(S): Szelke, Michael; Evans, David Michael; Jones, David Michael
 PATENT ASSIGNEE(S): Ferring Peptide Research Partnership KB, Swed.
 SOURCE: PCT Int. Appl., 68 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9204371	A1	19920319	WO 1991-GB1479	19910902
V: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MC, MG, MN, MV, NL, NO, PL, RO, SD, SE, SU, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG				
AU 9184387	A1	19920330	AU 1991-84387	19910902
HU 64084	A2	19931129	HU 1993-610	19910902
JP 06501461	T2	19940217	JP 1991-514802	19910902
EP 652893	A1	19950517	EP 1991-915557	19910902
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ZA 9107096	A	19920429	ZA 1991-7096	19910906
NO 9300731	A	19930507	NO 1993-731	19930226
PRIORITY APPLN. INFO.:			GB 1990-19558	A 19900907
OTHER SOURCE(S):		MARPAT 117:151397	WO 1991-GB1479	A 19910902
GI				



AB The title compds. [I; R = H, alkyl; R1 = basic amino acid side chain; A = terminal amino acyl, terminal imino acyl; B = D- or L- amino acid residue; Y = binding enhancing or carbonyl activating group preferably selected from H, alkyl, fluoroalkyl, etc.; with proviso], useful as kininogenase inhibitors (no data), are prepared BOC-Arg(Z)2-OH (Z = benzylloxycarbonyl) was condensed with ClCO2Bu-1, the product was deprotected and then condensed with BOC-Cha-OMe (Cha = 3-cyclohexylphenylalanine residue), the product was deprotected and then reacted with 2(NMe)-D-Phe-OH, the product was treated with Dess Martin Periodinane, and the product was hydrogenated over Pd/C to give MeD-Phe-Cha-Arg-H.

IT 143115-37-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as kininogenase inhibitor)

RN 143115-37-1 CAPLUS
 CN 1-Phenylalaninamide, D-prolyl-N-[4-[(aminoinomethyl)amino]-1-[[butyl(butylsulfonyl)amino]acetyl]butyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 119 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1992:449265 CAPLUS
 DOCUMENT NUMBER: 117:49265
 TITLE: Preparation of dipeptide renin inhibitors
 INVENTOR(S): Toyoda, Tatsuo; Fujioaka, Toshihiro; Hayashi, Kunio; Nakamura, Masuhisa; Hashimoto, Naofumi
 PATENT ASSIGNEE(S): Shionogi and Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 117 pp.
 CODEN: EPIXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

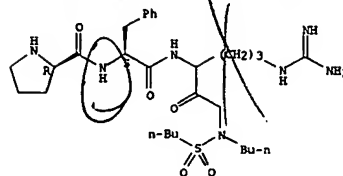
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 468641	A2	19920129	EP 1991-305763	19910626
EP 468641	A3	19930113		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 2045008	AA	19911229	CA 1991-2045008	19910619
US 5194608	A	19930316	US 1991-719492	19910624
AU 9179304	A1	19920102	AU 1991-79304	19910626
AU 643036	B2	19931104		
HU 58346	A2	19920228	HU 1991-2166	19910627
JP 05009162	A2	19930119	JP 1991-156764	19910627
JP 2997095	B2	20000111		
US 5223615	A	19930629	US 1992-974212	19921110
US 5272268	A	19931221	US 1992-974211	19921110
AU 9344890	A1	19931125	AU 1993-44890	19930826
AU 653682	B2	19941006		
PRIORITY APPLN. INFO.:			JP 1990-172050	A 19900628
OTHER SOURCE(S):		MARPAT 117:49265	US 1991-719492	A3 19910624
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. [I; R1 = (substituted) (cyclo)alkyl, alkenyl, alkynyl, heterocyclyl; R2 = (substituted) carbamoyl, aryl, heterocyclyl, alkyl, alkylthiomethyl, alkylthio; R3 = (substituted) aryl, 5- to 6-membered heterocyclyl; R4 = R5O2, R5CO; R5 = (substituted) aryl, (cyclo)alkyl, alkenyl, alkynyl, heterocyclyl; X = CH2, NH, O, S; Y = CO, NHSO2], were prepared. Thus, N-(tert-butoxycarbonyl)cyclohexylalaninal was condensed with 4-acetylpyridine using NaN(SiMe3)2 and 15-crown-5 in THF to give a mixture of aldol condensation epimers, which was treated with H2C:C(Me)OMe and p-MeC6H4SO3H to give oxazolidine II (BOC = Me3CO2C). This was successively reduced with NaBH4, deketalized with HCl or CF3CO2H, coupled with BOC-His(Tos)-OH (Tos = tosyl), and oxidized with MnO2 to give intermediate III. III was N-deprotected with CF3CO2H, acylated with 3-tert-butylsulfonyl-2S-phenylpropionic acid, and N'-deprotected with pyridinium hydrochloride to give title compound IV. I at 15 mg/kg orally in monkeys pretreated with furosemide gave 33-99% inhibition of renin. Several I at 1-100 mg/kg orally or i.v. effectively reduced blood pressure in monkeys.

IT 141597-65-1P 141597-66-2P 141597-67-3P
 141597-68-4P 141597-69-5P 141597-70-8P
 141597-71-9P 141597-72-0P 141597-73-1P
 141597-74-2P 141597-75-3P 141597-76-4P

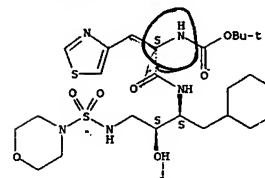
L12 ANSWER 118 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



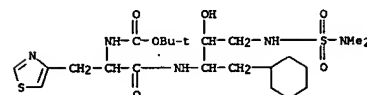
L12 ANSWER 119 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prep. of, as intermediate for peptide renin inhibitor)

RN 141597-65-1 CAPLUS
 CN Carbanic acid, [2-[[[1-(cyclohexylmethyl)-2-hydroxy-3-[(4-morpholinylsulfonyl)amino]propyl]amino]-2-oxo-1-(4-thiazolylmethyl)ethyl]-, 1,1-dimethylethyl ester, [1S-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

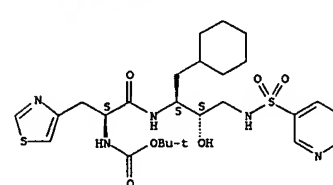


RN 141597-66-2 CAPLUS
 CN 3-Thia-2,4,8,11-tetraazadodecan-12-oic acid, 7-(cyclohexylmethyl)-6-hydroxy-2-methyl-9-oxo-10-(4-thiazolylmethyl)-, 1,1-dimethylethyl ester, 3,3-dioxide, [6S-(6R*,7R*,10R*)]- (9CI) (CA INDEX NAME)



RN 141597-67-3 CAPLUS
 CN Carbanic acid, [2-[[[1-(cyclohexylmethyl)-2-hydroxy-3-[(3-pyridinylsulfonyl)amino]propyl]amino]-2-oxo-1-(4-thiazolylmethyl)ethyl]-, 1,1-dimethylethyl ester, [1S-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

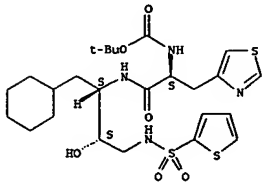
Absolute stereochemistry.



RN 141597-68-4 CAPLUS
 CN Carbanic acid, [2-[[[1-(cyclohexylmethyl)-2-hydroxy-3-[(2-

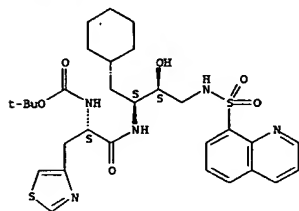
L12 ANSWER 119 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
thienylsulfonyl amino]propyl amino]-2-oxo-1-(4-thiazolylmethyl)ethyl]-, 1,1-dimethylethyl ester, [1S-[1R*(R'),2R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 141597-69-5 CAPLUS
CN Carbamic acid, [2-[[1-(cyclohexylmethyl)-2-hydroxy-3-[(8-quinolinylsulfonyl)amino]propyl]amino]-2-oxo-1-(4-thiazolylmethyl)ethyl]-, 1,1-dimethylethyl ester, [1S-[1R*(R'),2R*)]]- (9CI) (CA INDEX NAME)

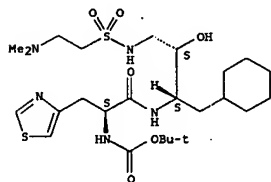
Absolute stereochemistry.



RN 141597-70-8 CAPLUS
CN Carbamic acid, [2-[[1-(cyclohexylmethyl)-2-hydroxy-3-[(phenylsulfonyl)amino]propyl]amino]-2-oxo-1-(4-thiazolylmethyl)ethyl]-, 1,1-dimethylethyl ester, [1S-[1R*(R'),2R*)]]- (9CI) (CA INDEX NAME)

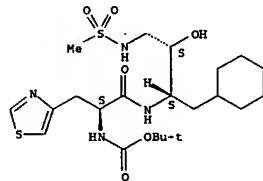
Absolute stereochemistry.

L12 ANSWER 119 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
Absolute stereochemistry.



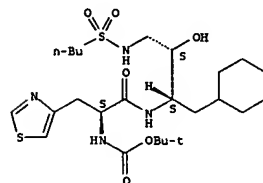
RN 141597-74-2 CAPLUS
CN 10-Thia-2,5,9-triazadecanoic acid, 6-(cyclohexylmethyl)-7-hydroxy-4-oxo-3-(4-thiazolylmethyl)-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

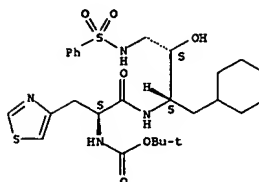


RN 141597-75-3 CAPLUS
CN 10-Thia-2,5,9-triazatetradecanoic acid, 6-(cyclohexylmethyl)-7-hydroxy-4-oxo-3-(4-thiazolylmethyl)-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

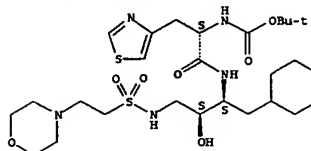


L12 ANSWER 119 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



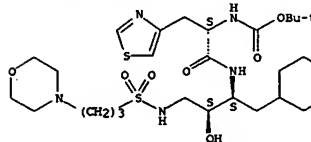
RN 141597-71-9 CAPLUS
CN 10-Thia-2,5,9-triazadecanoic acid, 6-(cyclohexylmethyl)-7-hydroxy-12-(4-morpholinyl)-4-oxo-3-(4-thiazolylmethyl)-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 141597-72-0 CAPLUS
CN 10-Thia-2,5,9-triazatridecanoic acid, 6-(cyclohexylmethyl)-7-hydroxy-13-(4-morpholinyl)-4-oxo-3-(4-thiazolylmethyl)-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

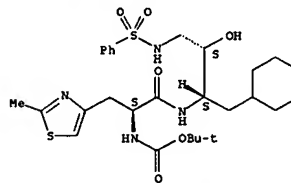


RN 141597-73-1 CAPLUS
CN 10-Thia-2,5,9,13-tetraazatetradecanoic acid, 6-(cyclohexylmethyl)-7-hydroxy-13-methyl-4-oxo-3-(4-thiazolylmethyl)-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7R*)]]- (9CI) (CA INDEX NAME)

L12 ANSWER 119 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

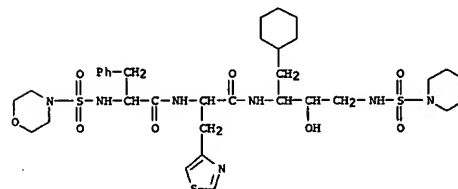
RN 141597-76-4 CAPLUS
CN Carbamic acid, [2-[[1-(cyclohexylmethyl)-2-hydroxy-3-[(phenylsulfonyl)amino]propyl]amino]-1-[(2-methyl-4-thiazolyl)methyl]-2-oxoethyl]-, 1,1-dimethylethyl ester, [1S-[1R*(R'),2R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



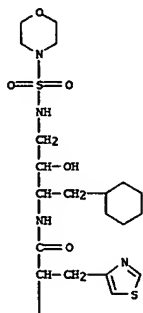
IT 141596-68-1P 141596-69-2P 141596-70-5P
141596-71-6P 141596-72-7P 141596-73-8P
141596-74-9P 141596-75-0P 141596-76-1P
141596-77-2P 141596-78-3P 141596-79-4P
141596-80-7P 141596-81-8P 141596-82-9P
141596-83-0P 141596-84-1P 141625-04-9P
142003-00-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as renin inhibitor)

RN 141596-68-1 CAPLUS
CN L-Alaninamide, N-(4-morpholinylsulfonyl)-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(4-morpholinylsulfonyl)amino]propyl]-3-(4-thiazolyl)-, [5-(R*,R*)]]- (9CI) (CA INDEX NAME)



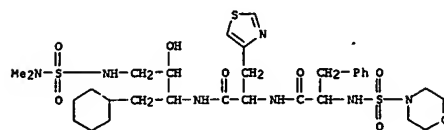
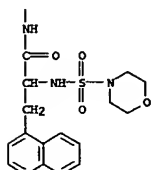
RN 141596-69-2 CAPLUS
CN L-Alaninamide, N-(4-morpholinylsulfonyl)-3-(1-naphthalenyl)-L-alanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(4-morpholinylsulfonyl)amino]propyl]-3-(4-thiazolyl)-, [5-(R*,R*)]]- (9CI) (CA INDEX NAME)

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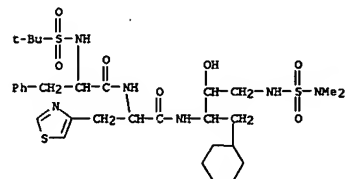


RN 141596-70-5 CAPLUS
CN L-Alaninamide, N-(4-morpholinylsulfonyl)-L-phenylalanyl-N-[1-(cyclohexylmethyl)-3-[(dimethylamino)sulfonyl]amino]-2-hydroxypropyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

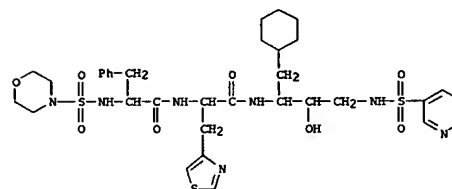
PAGE 2-A



RN 141596-71-6 CAPLUS
CN L-Alaninamide, N-[(1,1-dimethylethyl)sulfonyl]-L-phenylalanyl-N-[1-(cyclohexylmethyl)-3-[(dimethylamino)sulfonyl]amino]-2-hydroxypropyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

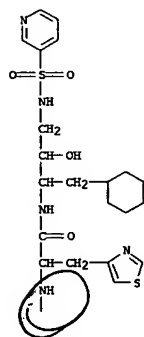


RN 141596-72-7 CAPLUS
CN L-Alaninamide, N-(4-morpholinylsulfonyl)-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(3-pyridinylsulfonyl)amino]propyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)



RN 141596-73-8 CAPLUS
CN L-Alaninamide, N-(4-morpholinylsulfonyl)-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(3-pyridinylsulfonyl)amino]propyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

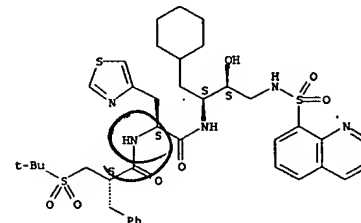
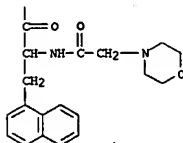
PAGE 1-A



RN 141596-74-9 CAPLUS
CN 4-Thiazolepropanamide, N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(8-quinolinylsulfonyl)amino]propyl]-N-[[2-[(1,1-dimethylethyl)sulfonyl]amino]propyl]-1-oxo-3-phenylpropyl]amino]-, [1S-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

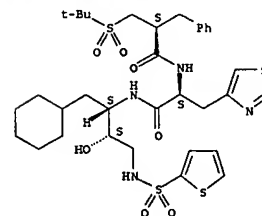
Absolute stereochemistry.

PAGE 2-A



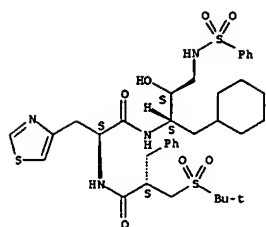
RN 141596-75-0 CAPLUS
CN 4-Thiazolepropanamide, N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(2-thienylsulfonyl)amino]propyl]-N-[[2-[(1,1-dimethylethyl)sulfonyl]amino]propyl]-1-oxo-3-phenylpropyl]amino]-, [1S-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



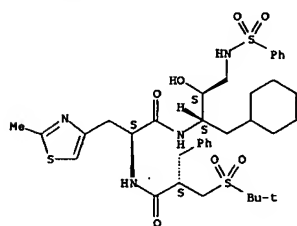
RN 141596-76-1 CAPLUS
CN 4-Thiazolepropanamide, N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(phenylsulfonyl)amino]propyl]-N-[[2-[(1,1-dimethylethyl)sulfonyl]amino]propyl]-1-oxo-3-phenylpropyl]amino]-, [1S-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



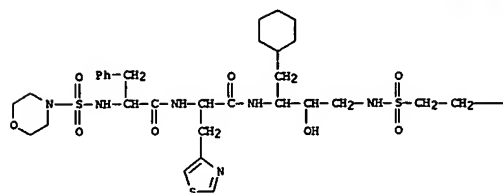
RN 141596-77-2 CAPLUS
CN 4-Thiazolepropanamide, N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(phenylsulfonyl)amino]propyl]-a-[[2-[[1,1-dimethylethyl)sulfonyl)methyl]-1-oxo-3-phenylpropyl]amino]-2-methyl-, [1S-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 141596-78-3 CAPLUS
CN L-Alaninamide, N-(4-morpholinylsulfonyl)-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[[3-(4-morpholinyl)ethyl)sulfonyl]amino]propyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

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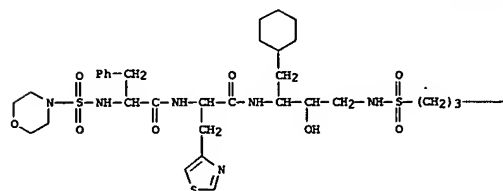


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RN 141596-79-4 CAPLUS
CN L-Alaninamide, N-(4-morpholinylsulfonyl)-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[[3-(4-morpholinyl)propyl)sulfonyl]amino]propyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

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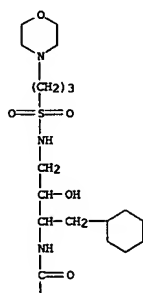


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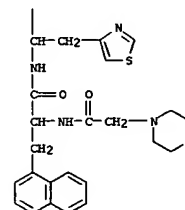


RN 141596-80-7 CAPLUS
CN L-Alaninamide, N-(4-morpholinylacetyl)-3-(1-naphthalenyl)-L-alanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[[3-(4-morpholinyl)propyl)sulfonyl]amino]propyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

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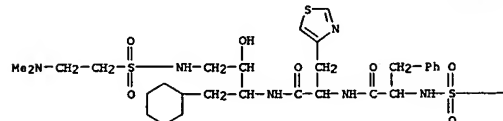


PAGE 2-A



RN 141596-81-8 CAPLUS
CN L-Alaninamide, N-(4-morpholinylsulfonyl)-L-phenylalanyl-N-[1-(cyclohexylmethyl)-3-[[[2-(dimethylamino)ethyl)sulfonyl]amino]-2-hydroxypropyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

PAGE 1-A

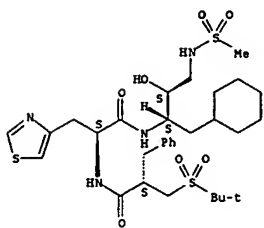


PAGE 1-B



RN 141596-82-9 CAPLUS
CN 4-Thiazolepropanamide, N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(methylsulfonyl)amino]propyl]-a-[[2-[[1,1-dimethylethyl)sulfonyl)methyl]-1-oxo-3-phenylpropyl]amino]-, [1S-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

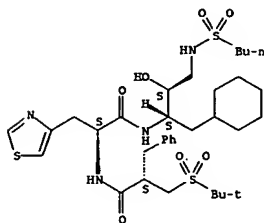
Absolute stereochemistry.



RN 141596-83-0 CAPLUS

CN 4-Thiazolepropanamide, N-[3-[(butylsulfonyl)amino]-1-(cyclohexylmethyl)-2-hydroxypropyl]-α-[[2-[[[(1,1-dimethylethyl)sulfonyl]methyl]-1-oxo-3-phenylpropyl]amino]-, [1S-[1R*[R*(R*)],2R*]]- (9CI) (CA INDEX NAME)

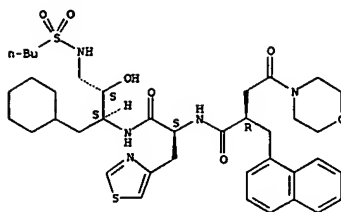
Absolute stereochemistry.



RN 141596-84-1 CAPLUS

CN 4-Morpholinebutanamide, N-[2-[[3-[(butylsulfonyl)amino]-1-(cyclohexylmethyl)-2-hydroxypropyl]amino]-2-oxo-1-(4-thiazolylmethyl)ethyl]-α-(1-naphthalenylmethyl)-γ-oxo-, [1S-[1R*[R*(S*)],2R*]]- (9CI) (CA INDEX NAME)

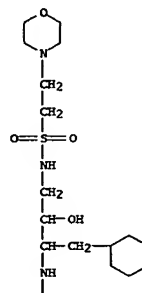
Absolute stereochemistry.



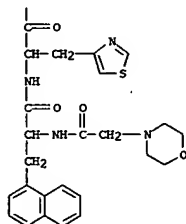
RN 141625-04-9 CAPLUS

CN L-Alaninamide, N-(4-morpholinylacetyl)-3-(1-naphthalenyl)-L-alanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[[2-(4-morpholinyl)ethyl]sulfonyl]amino]propyl]-3-(4-thiazolyl)-, [5-(R*,R*)]- (9CI) (CA INDEX NAME)

PAGE 1-A



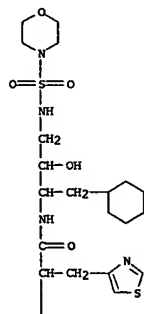
PAGE 2-A



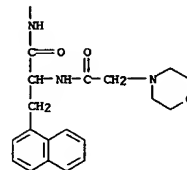
RN 142003-00-7 CAPLUS

CN L-Alaninamide, N-(4-morpholinylacetyl)-3-(1-naphthalenyl)-L-alanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[[2-(4-morpholinyl)ethyl]sulfonyl]amino]propyl]-3-(4-thiazolyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

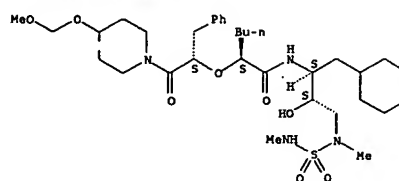


L12 ANSWER 120 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1991:632882 CAPLUS
 DOCUMENT NUMBER: 115:232882
 TITLE: Preparation of peptide analogs as renin inhibitors for treatment of hypertension and heart failure
 INVENTOR(S): Fung, Anthony K. L.; Plattner, Jacob J.; Baker, William R.; Armiger, Yeek Lin; Rosenberg, Saul H.; De, Biswanath; Mantel, Robert A.; Boyd, Steven A.; Kempf, Dale J.; et al.
 PATENT ASSIGNEE(S): Abbott Laboratories, USA
 SOURCE: Eur. Pat. Appl., 145 pp.
 CODEN: EPOXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 364804	A1	19900425	EP 1989-118270	19891003
R: ES, GR				
IL 91780	A1	19950831	IL 1989-91780	19890926
CA 1337909	A1	19960109	CA 1989-615201	19890929
WO 9003971	A1	19900419	WO 1989-054385	19891003
V: AU, DK, JP, KR, US				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
AU 8944163	A1	19900501	AU 1989-44163	19891003
EP 639212	B2	19930722		
EP 437508	A1	19910724	EP 1989-911665	19891003
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 04505608	T2	19921001	JP 1989-510915	19891003
DK 9100599	A	19910404	DK 1991-599	19910404
US 5268374	A	19931207	US 1991-700185	19910522
PRIORITY APPL. INFO.:			US 1988-253282	A 19881004
			US 1989-393721	A 19890814
			WO 1989-054385	A 19891003

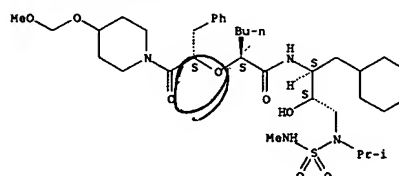
OTHER SOURCE(S): MARPAT 115:232882
 GI For diagram(s), see printed CA issue.
 AB ACHRIKCH3COT [A = R5CO(CH2)w, R5 = HO, alkoxy, thioalkoxy, (substituted) amino, alkylsulfonyl, arylsulfonyl, heterocyclosulfonyl, heterocyclyl, etc.; w = 0-4; R1 = H, alkyl, alkenyl, cycloalkylalkyl, arylalkyl, etc.; R3 = alkyl, haloalkyl, alkenyl, alkoxyalkyl, etc.; X = CH2, CHOH, CO, NH, O, S, etc.; T = a mimic of the Leu-Val cleavage site of angiotensinogen] a salt, ester, or prodrug thereof, were prepared 3-(4-(morpholinyl)propyl-2(S)-[3-(tert-butoxycarbonyl)-2,2-dimethyl-4(S)-(cyanohexylmethyl)-5(S)-oxazolidinyl)methyl]-3-methylbutanamide (preparation given) was deprotected to give the alc. which was coupled with 2(S)-[1(S)-4-(methoxymethoxy)piperidin-1-ylcarbonyl]-2-(phenylethoxy)hexanoic acid (preparation given), 1-hydroxybenzotriazole, and N-methylmorpholine, to give hexanamide I. In 2 salt depleted monkeys following oral dosing, I at 3 mg/kg decreased blood pressure and plasma renin activity from 114 to 99 mm Hg and from 23.9 to 0.2 ng/mL/h, resp.
 IT 130316-99-3P 130317-09-8P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as nonpeptide renin inhibitor)
 RN 130316-99-3 CAPLUS
 CN Hexanamide, N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(methylamino)sulfonyl]amino]propyl-2-[2-(4-(methoxymethoxy)-1-piperidinyl)-2-oxo-1-(phenylmethyl)ethoxy]-, [1S-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

L12 ANSWER 120 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 Absolute stereochemistry.



RN 130317-09-8 CAPLUS
 CN Hexanamide, N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(methylamino)sulfonyl]amino]propyl-2-[2-(4-(methoxymethoxy)-1-piperidinyl)-2-oxo-1-(phenylmethyl)ethoxy]-, [1S-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



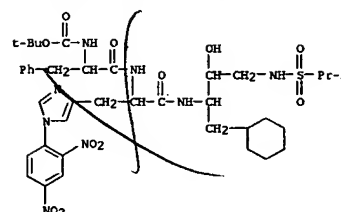
L12 ANSWER 121 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1989:193405 CAPLUS
 DOCUMENT NUMBER: 110:193405
 TITLE: Preparation of amino acid amidoalkoxyalkylamides and pharmaceuticals containing them for the treatment of hypertension and hyperaldosteronism
 INVENTOR(S): Raddatz, Peter; Schmitges, Claus J.; Minck, Klaus Otto
 PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 17 pp.
 CODEN: GWXQX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3635907	A1	19880428	DE 1986-3635907	19861022
EP 264795	A2	19880427	EP 1987-114975	19871013
EP 264795	A3	19900328		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
AU 8779823	A1	19880428	AU 1987-79823	19871015
HU 47596	A2	19890328	HU 1987-4728	19871021
HU 199875	B	19900328		
JP 63112548	A2	19880517	JP 1987-265548	19871022
ZA 8707950	A	19880629	ZA 1987-7950	19871022
PRIORITY APPL. INFO.:			DE 1986-3635907	A 19861022

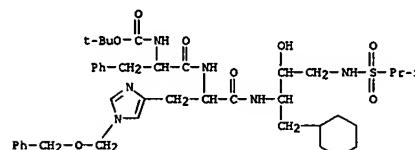
OTHER SOURCE(S): CASREACT 110:193405; MARPAT 110:193405
 AB Pharmaceuticals contain hydroxy amino acid derivs: X2N2R2CH3CHOH(CH2)nNR4EY (I; X = H, R1OCmH2mCO, R1CmH2mCO, R1SO2, etc.; 2 = 1-4 amino acid residues; E = CONH, CSNH, CO2, SO2, SO2NH, etc.; Y = R5, CO2R6, CONR7R8, etc.; EY = pyrrolidinocarbonyl, piperidinocarbonyl, morpholinocarbonyl, pyrrolidinocarbonyl, etc.; R1, R3, R6, R7, R8 = H, alkyl, aryl, arylalkyl, heterocyclyl, heterocyclylalkyl, cycloalkyl, bicycloalkyl, etc.; R2, R4 = H, alkyl; R5 = H, alkyl, aryl, arylalkyl, cycloalkyl, cycloalkylalkyl; m = 0-5; n = 1, 2. I are used for the treatment of renin-dependent hypertension and hyperaldosteronism (no data). 1-Bromo-3S-BOC-amino-4-cyclohexylbutan-2-one was treated with NaN3 in DMF at 0° to give 1-azido-3S-BOC-amino-4-cyclohexylbutan-2-one; the latter was reduced with NaBH4 and the resulting epimers were resolved by chromatog. to give 1-azido-3S-BOC-amino-4-cyclohexylbutan-2S-ol and this was hydrogenated to give 1-amino-3S-BOC-amino-4-cyclohexylbutan-2S-ol. The latter was treated with isopentyl isocyanate, the BOC group was removed with 4N HCl in dioxane, the product was treated with BOC-(1S-DNP-His)OMe to give N-isopentyl-N'-(2S-hydroxy-3S-[BOC-(1S-DNP-His)amino]-4-cyclohexylbutyl)urea. This was deprotected and solvolyzed to give N-isopentyl-N'-(2S-hydroxy-3S-[BOC-Phe-His)amino]-4-cyclohexylbutyl)urea (I). A solution containing 100 g I and 5 g Na2HPO4 in 3 L

H2O at pH 6.5 was filled into ampules containing 500 mg I each.
 IT 120195-54-2P 120195-83-7P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and partial deprotection of)
 RN 120195-54-2 CAPLUS
 CN L-Histidinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(1-methylethyl)sulfonyl]amino]propyl-1-(2,4-dinitrophenyl)-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

L12 ANSWER 121 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

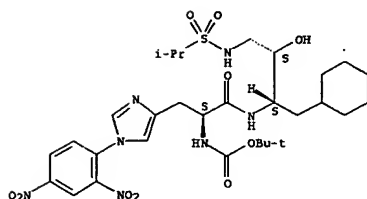


RN 120195-83-7 CAPLUS
 CN L-Histidinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[(1-methylethyl)sulfonyl]amino]propyl-1-(phenylmethoxy)methyl-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)



IT 120195-53-1P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as intermediate for amino acid (amidoalkoxyalkyl)amide antihypertensives)
 RN 120195-53-1 CAPLUS
 CN 10-Thia-2,5,9-triazadecanoic acid, 6-(cyclohexylmethyl)-3-[(1-(2,4-dinitrophenyl)-1H-imidazol-4-yl)methyl]-7-hydroxy-11-methyl-4-oxo-, 1,1-dimethylethyl ester, 10,10-dioxide, [3S-(3R*,6R*,7R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

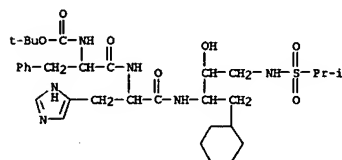


IT 120195-52-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, for treatment of hypertension and hyperaldosteronism)

RN 120195-52-0 CAPLUS

CN L-Histidinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[[(1-methylethyl)sulfonyl]amino]propyl]-, [S-(R*,R*)]]- (9CI) (CA INDEX NAME)



L12 ANSWER 122 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

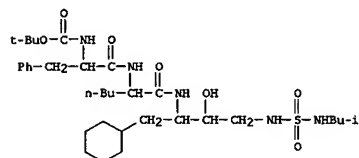
MeSO2NMe2 in 50 mL THF was mixed at 0-5° with 20 mL 1.6M BuLi in hexane. After 0.5 h, 3.7 g N-tert-butoxycarbonylcyclohexylalaninal was added at once and was allowed to react 0.5 h to give (2R,3S)-3-N-(tert-butoxycarbonylamino)-4-cyclohexyl-2-hydroxy-N,N-dimethyl-1-butanedisulfonamide as the main product and the (2R,3R)-isomer as a byproduct.

IT 118546-36-4P 118551-01-2P 118551-04-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of, as renin inhibitor)

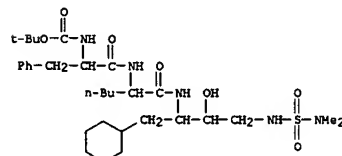
RN 118546-36-4 CAPLUS

CN L-Norleucinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[[(2-methylpropyl)amino]sulfonyl]amino]propyl]-, [R-(R*,S*)]]- (9CI) (CA INDEX NAME)



RN 118551-01-2 CAPLUS

CN L-Norleucinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[[(dimethylamino)sulfonyl]amino]-2-hydroxypropyl]-, [S-(R*,R*)]]- (9CI) (CA INDEX NAME)



RN 118551-04-5 CAPLUS

CN Cyclohexanepropanamide, N-[1-[[[1-(cyclohexylmethyl)-3-[[[(dimethylamino)sulfonyl]amino]-2-hydroxypropyl]amino]carbonyl]pentyl]-, [1S-[1R*(R*),2R*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 122 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:173760 CAPLUS

DOCUMENT NUMBER: 110:173760

TITLE: Preparation of renin-inhibiting peptides
INVENTOR(S): Hagenbach, Alexander; Metternich, Rainer; Pfenninger, Emil; Weidmann, Beat
SOURCE: Sandoz A.-G., Switz.
Brit. UK Pat. Appl., 88 pp.
CODEN: BAKXDU

DOCUMENT TYPE: Patent

LANGUAGE: English

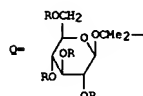
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2200115	A1	19880727	GB 1988-1040	19880118
GB 2200115	B2	19901114		
NL 8800100	A	19880816	NL 1988-100	19880118
CH 676988	A	19910328	CH 1988-157	19880118
DK 8800225	A	19880722	DK 1988-225	19880119
FR 2609716	A1	19880722	FR 1988-636	19880119
AU 8810375	A1	19880901	AU 1988-10375	19880119
BE 1002212	A5	19901016	BE 1988-67	19880119
SE 8800165	A	19880722	SE 1988-169	19880120
JP 01019053	A2	19890123	JP 1988-10571	19880120
ZA 8800415	A	19890927	ZA 1988-415	19880121
PRIORITY APPLN. INFO.:			DE 1987-3701526	A 19870121
			DE 1987-3707339	A 19870307

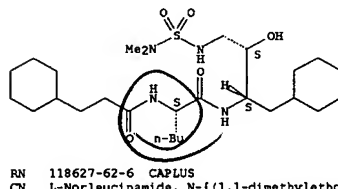
OTHER SOURCE(S): MARPAT 110:173760

GI



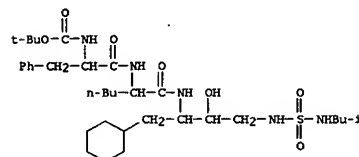
AB The title peptides A-B-C-NR1CHR2CHR3CH2-D-Y-NR4R5 [I: A = R6CO, R7CONHC((R8R9)CO); R6 = (un)branched, (un)substituted C1-10 alkyl, C3-7 cycloalkyl, C3-10 cycloalkyl(C1-5 alkyl), C6-10 aryl, 5- or 6-membered heteroaryl(C1-5 alkyl) containing 1 or 2 N, O, or S, or 1 N and 1 O and/or S in the heteroaryl moiety, (un)branched C1-5 alkyl, C6-10 aryl(C1-5 alkyl), Q, R10O(CH2CH2O)n(CH2)2; R = H, Ac; R10 = (un)branched C1-5 alkyl; n = 1-20; m = 1-5; R7 = (un)branched C1-5 alkyl, C6-10 aryl, R8, R9 = H, R7; R1 = H, (un)branched C1-5 alkyl; B, C = bond, NR1CHR1CO, excluding B = C = bond; R11 = hydrophilic or lipophilic amino acid side chain; D = O, NR1, CHR1; R2 = (un)branched C1-10 alkyl, (un)substituted C3-10 cycloalkyl(C1-5 alkyl), heteroaryl(C1-5 alkyl) defined as above, R15S(O)(CH2)p; R15 = H, C1-4 alkyl, CH2Ph; s = 0, 1; p = 1, 2; R3 = H, OH, NH2, OCH2R2; R4, R5 = H, (un)branched C1-5 alkyl, C6-10 aryl(C1-5 alkyl), heteroaryl(C1-5 alkyl) defined as above, CHR12COR13; R12 = (un)branched C1-5 (hydroxy)alkyl; R13 = OH, NH2 (un)branched C1-5 alkyl, (un)branched C1-5 alkylamino, CH2Ph, NR4R5, 1-pyrrolidinyl, 1-piperidinyl, morpholino, (N-substituted)-1-piperazinyl, etc.; Y = SO2, CO, PNR4R5, useful as renin inhibitors (no data), were prepared A solution of 4 g

L12 ANSWER 122 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



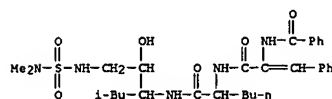
RN 118627-62-6 CAPLUS

CN L-Norleucinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[[(2-methylpropyl)amino]sulfonyl]amino]propyl]-, [S-(R*,R*)]]- (9CI) (CA INDEX NAME)

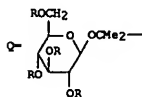


RN 120019-57-0 CAPLUS

CN L-Norleucinamide, N-benzoyl-α,β-didehydrophenylalanyl-N-[1-[2-[[[(dimethylamino)sulfonyl]amino]-1-hydroxyethyl]-3-methylbutyl]-, [R-(R*,S*)]]- (9CI) (CA INDEX NAME)



PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3800591	A1	19880804	DE 1988-3800591	19880112
NL 8800100	A	19880816	NL 1988-100	19880118
CH 676988	A	19910328	CH 1988-157	19880118
DK 8800225	A	19880722	DK 1988-225	19880119
FR 2609716	A	19880725	FR 1988-716	19880119
AU 8810375	A1	19880901	AU 1988-10375	19880119
BE 1002212	A5	19901016	BE 1988-67	19880119
SE 8800169	A	19880722	SE 1988-169	19880120
JP 01019053	A2	19890123	JP 1988-10571	19880120
ZA 8800415	A	19890927	ZA 1988-415	19880121
PRIORITY APPLN. INFO.:				
OTHER SOURCE(S):		CASREACT 110:135732;	MARPAT 110:135732	
GI		DE 1987-3701526	A1	19870121
		DE 1987-3707335	A1	19870307

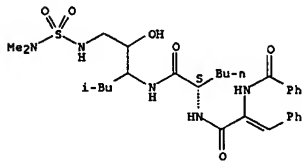


AB A-B-C-NR1CR2CR3CH2DNR4R5 (I: A = R6CO, R7CONHC(CH2R8)CO, sugar moiety Q; B, C = bond, NR1CHNR1R10 = D = bond, O, NR1, CHR1 = Y = SO2, CO, P(O)NR4R5 = R = H, CR1 = H, C1-5 alkyl; R2 = C1-10 alkyl, (substituted) cycloalkylalkyl, aralkyl, heteroarylalkyl, etc.; R3 = H, OH, amino, alkoxycarbonyl, etc.; R4, R5 = H, C1-5 alkyl, aralkyl, heteroarylalkyl, etc.; R4R5N = morpholino, piperazino, piperidino, pyrrolidino; R6 = substituted C1-10 alkyl, cycloalkyl, cycloalkylalkyl, aryl, heteroaryl, etc.; R7 = C1-10 alkyl, R8, R9 = H, R10 = hydrophilic or hydrophobic or lipophilic amino acid side chain, useful as cardiovascular agents, were prepared MeSO2NmMe2 in THF at 0-5° was treated with BuLi and after 0.5 h Boc-cyclohexylalaninal (BOC = Me3COO2C) was added. The mixture was stirred 0.5 h to give (2R,3S)-3-(BOC-amino)-N,N-dimethyl-4-cyclohexyl-2-hydroxy-1-butananesulfonamide. I inhibit human plasma renin with IC50 of 10-5 to 10-11 M.

118546-36-4P 118551-01-2P 118551-02-3P
118551-04-3P 118627-62-6P

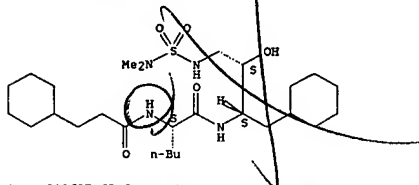
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological

L12 ANSWER 123 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

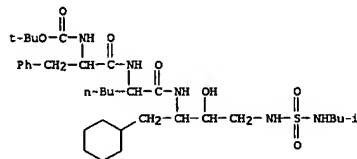


RN 118551-04-5 CAPLUS
CN Cyclohexanepropanamide, N-[1-[[[1-(cyclohexylmethyl)-3-
[[dimethylamino)sulfonyl]amino]-2-hydroxypropyl]amino]carbonyl]pentyl]-,
[1S-[1R*(R*),2R*)]-(9CI) (CA INDEX NAME)

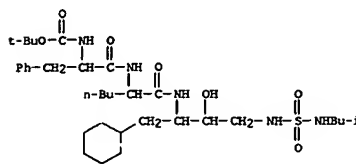
Absolute stereochemistry.



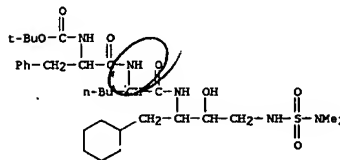
RN 118627-62-6 CAPIUS
CN L-Norleucinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-(cyclohexylmethyl)-2-hydroxy-3-[[[(2-methylpropyl)amino]sulfonyl]amino]propyl]-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)



L12 ANSWER 123 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
study), PREP (Preparation)
RN (prepn. of, as renin inhibitor)
CN 118546-36-4 CAPLUS
L-Norleucinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-
(cyclohexylacetyl)-2-hydroxy-3-[[[(2-methylpropyl)amino]sulfonyl]amino]pro-
pyl], [R-([R*,S*])-(9CI) (CA INDEX NAME)



RN 118551-01-2 CAPIUS
CN L-Norleucinamide, N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl-N-[1-(cyclohexylmethyl)-3-[(1,1-dimethylamino)sulfonyl]amino]-2-hydroxypropyl]-, [S-(R*, R*)]- (9CI) (CA INDEX NAME)



RN 118551-02-3 CAPLUS
CN L-Norleucinamide, N-benzoyl- α , β -didehydrophenylalanyl-N-[1-[2-
[[(dimethylamino) sulfonyl] amino]-1-hydroxyethyl]-3-methylbutyl]- (9CI)
[CA INDEX NAME]

Absolute stereochemistry.
Double bond geometry unknown.

L12 ANSWER 124 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1967:5439 CAPLUS
DOCUMENT NUMBER: 10615439
TITLE: Amino acid esters and amides
INVENTOR(S): Ryono, Denis Evans; Petrillo, Edward William, Jr.
PATENT ASSIGNEE(S): E. R. Squibb and Sons, Inc., USA
SOURCE: Ger. Offen., 53 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3542567	A1	19860605	DE 1985-3542567	19851202
US 4629724	A	19861216	US 1984-677714	19841203
GB 2167759	A1	19860604	GB 1985-29058	19851126
GB 2167759	B2	19880921		
CA 1269497	A1	19900522	CA 1985-496343	19851127
FR 2574080	A1	19860606	FR 1985-17860	19851127
FR 2574080	B1	19900330		
JP 61137897	A2	19860625	JP 1985-273162	19851203
JP 07020590	B4	19950308		

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): CASREACT 106:5439

AB R6ONCHCZRH2CNHRI3CH3CONR5SCHRO4 [Z = CH(OH), CO, R, Z, R2, R3 = H,
(un)substituted alkyl, etc.; R1 = H, alkyl, aralkyl, cycloalkyl, etc.; R4
= alkoxy, aralkoxy, heterocyclylalkoxy, (un)substituted amino, etc; R5 =
alkyl, aralkyl, aralkoxy, cycloalkyl, etc.; R6 = alkyl, aralkyl, hetero-
cyclylalkyl, (un)substituted aminomethyl], useful as
antihypertensives (no data), were prepared E.g., Q-L-Leu-l-Val-Ome.HCl [Q =
(2R,3S)-3-(L-histidylamino)-2-hydroxy-5-methylhexyl] was prepared, by
solution methods, in many steps. One thousand tablets (each containing
one tablet equivalent dose) contained 10 mg each of the following:
theophylline 150 mg, aspirin 100 mg, dextrose 100 mg, lactose 100 mg,
gelatin 100 mg, croscarmellose sodium 100 mg, polyvinylpyrrolidone 100 mg,
magnesium stearate 5 mg.

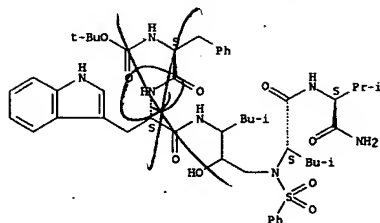
IT 105577-98-8P 105577-99-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological

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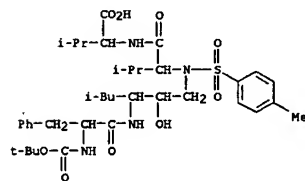
study); PREP (Preparation)
      (preparation of, as antihypertensive)
RN  105577-98-8 CAPLUS
CN  L-Valinamide, N-[3-[[N-[N-[(1,1-dimethylethoxy)carbonyl]-L-phenylalanyl]-L-
    tryptophyl]amino]-2-hydroxy-5-methylhexyl]-N-(phenylsulfonyl)-L-leucyl-
    (9CI) (CA INDEX NAME)

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Absolute stereochemistry.



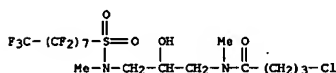
RN 105577-99-9 CAPLUS
CN L-Valine, N-[N-[3-[[2-[[[1,1-dimethylethoxy]carbonyl]amino]-1-oxo-3-phenylpropyl]amino]-2-hydroxy-5-methylhexyl]-N-[(4-methylphenyl)sulfonyl]-L-valyl]- (9CI) (CA INDEX NAME)



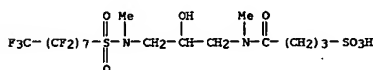
L12 ANSWER 125 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:440224 CAPLUS
DOCUMENT NUMBER: 101:40224
TITLE: Linear fluorine-containing anionic compounds
PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan; Kawamura Physical and Chemical Research Institute
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JOKKAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 5904849	A2	19840319	JP 1982-158087	19820913
JP 03021015	B4	19910320		

PRIORITY APPLN. INFO.: JP 1982-158087 19820913
AB Anionic surfactants are prepared which contain polyfluoroalkyl groups and urea linkages, thiourea linkages, or carbonamide groups. Thus, a 0.1% aqueous solution of C6F13SO2NH(CH2)3NMeCONH(CH2)2SO3Na [90851-81-3] had foaming power 202 mm in H2O and 198 mm in seawater and surface tension 17.3 dyne/cm.
IT 90851-73-3p
RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with sodium sulfite)
RN 90851-73-3 CAPLUS
CN Butanamide, 4-chloro-N-[3-[[heptafluorooctyl)sulfonyl]methylamino]-2-hydroxypropyl]-N-methyl- (9CI) (CA INDEX NAME)



IT 90851-87-9
RI: TEM (Technical or engineered material use); USES (Uses)
(surfactants)
RN 90851-87-9 CAPLUS
CN 1-Butanesulfonic acid, 4-[[3-[[heptafluorooctyl)sulfonyl]methylamino]-2-hydroxypropyl]methylamino]-4-oxo-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L12 ANSWER 126 OF 126 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1977:171847 CAPLUS
DOCUMENT NUMBER: 86:171847
TITLE: [D-2-(1,4-Cyclohexadienyl)Gly]6-DES-Gly10-LRH nonapeptide amides
INVENTOR(S): Foell, Theodore J.; Rees, Richard W. A.
PATENT ASSIGNEE(S): American Home Products Corp., USA
SOURCE: U.S., 6 pp.
CODEN: USKKAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3992530	A	19761116	US 1975-638385	19751208
BE 847419	A1	19770419	BE 1976-171618	19761019
NL 7611753	A	19770610	NL 1976-11753	19761022
FR 2334369	A1	19770708	FR 1976-32138	19761025
FR 2334369	B1	19790223		
GB 1553524	A	19790926	GB 1976-44198	19761025
DE 2648829	A1	19770616	DE 1976-2648829	19761027
JP 52071469	A2	19770614	JP 1976-135118	19761108

PRIORITY APPLN. INFO.: US 1975-638385 A 19751208
GI

H-pyro-Glu-His-Trp-Ser-Tyr-D-NHCHCO-Leu-Arg-Pro-NH₂t

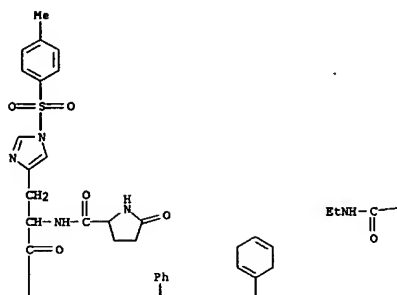


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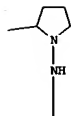
AB The LH-releasing hormone analog I was prepared by the solid-phase method. Thus, H-pyroGlu-His(SO2C6H4Me-4)-Trp-Ser(CH2Ph)-Tyr(CH2C6H3C12-2,6)-D-Cgl-Leu-Arg(SO3C6H4Me-4)-Pro-resin)II, Cgl = 2-(1,4-cyclohexadienyl)glycyl was prepared by stepwise solid-phase couplings in which Me3CO2C-D-Cgl-OH was used. II was treated with EtNH2 and deblocked with HF to give I. Preimplantation and postimplantation inhibition of pregnancy in rats was accomplished by the s.c. administration of I at 200 µg/day. I can be useful as a morning-after contraceptive in mammals and an antilittering agent for control of rodent populations.

IT 62526-87-8p
RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and deblocking of)
RN 62526-87-8 CAPLUS
CN L-Prolinamide, 5-oxo-L-prolyl-1-[(4-methylphenyl)sulfonyl]-L-histidyl-L-tryptophyl-O-(phenylmethyl)-L-seryl-O-[(2,6-dichlorophenyl)methyl]-L-tyrosyl-D-2-(1,4-cyclohexadienyl)glycyl-L-leucyl-N5-[imino[[4-methylphenyl)sulfonyl]amino]methyl]-L-ornithyl-N-ethyl- (9CI) (CA INDEX NAME)

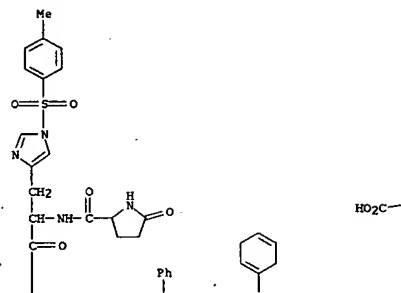
PAGE 1-A



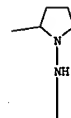
PAGE 1-B



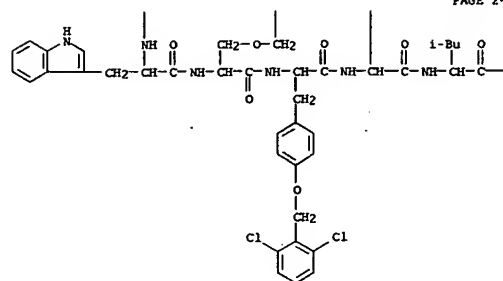
PAGE 1-A



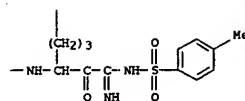
PAGE 1-B



PAGE 2-A

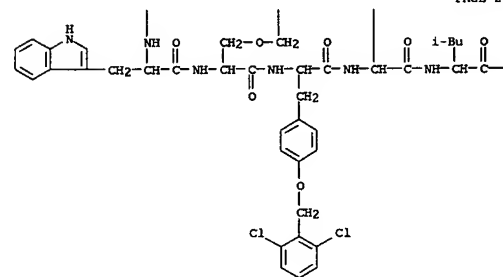


PAGE 2-B

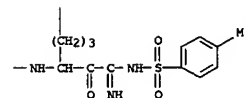


IT 62526-86-70P, resin-bound
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, with ethylamine)
 RN 62526-86-7 CAPLUS
 CN L-Proline, 1-[(N2-[N-[D-2-(1,4-cyclohexadien-1-yl)-N-[O-[(2,6-dichlorophenyl)methyl]-N-[N-[1-[(4-methylphenyl)sulfonyl]-N-(5-oxo-L-prolyl)-L-histidyl]-L-tryptophyl]-O-(phenylmethyl)-L-seryl]-L-tyrosyl]glycyl]-L-leucyl]-N5-[imino[(4-methylphenyl)sulfonyl]amino]methyl]-L-ornithyl)-(9CI) (CA INDEX NAME)

PAGE 2-A



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COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE

ENTRY

135.18

SINCE FILE

ENTRY

-19.71

TOTAL

SESSION

701.85

TOTAL

SESSION

-39.42

STN INTERNATIONAL LOGOFF AT 14:18:13 ON 12 AUG 2005